

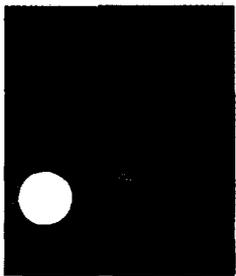
# Henry Petroleum LP

South Justis Unit  
Lea Co., New Mexico

Proposal for Water Injection Conversions

SJU B-12 and SJU B-13

NMOCD Form C-108  
with Attachments



**HENRY**

PETROLEUM LP

August 31, 2001

State of New Mexico  
New Mexico Oil Conservation Division  
Energy, Minerals And Natural  
Resources Department  
P. O. Box 6429  
Santa Fe NM 87505

Re: Proposed Water Injection Conversions  
South Justis Unit Wells No. B-12 & B-13  
Lea County, New Mexico

Attn: Mr. David R. Catanach

Dear Sir:

In the two enclosed notebooks please find the Application For Authorization To Inject Form C-108 from Henry Petroleum LP. All certifications for proof of notice were mailed on August 31, 2001 to the Surface Owner and to each leasehold operator within one-half mile of the well locations.

If anything else is needed please advise.

Very truly yours;

Henry Petroleum LP

Roy R. Johnson  
Regulatory Tech.

Original & 1 copy to Santa Fe  
1 copy to NMOCD Hobbs

Form C-108

**Application for Authorization to Inject  
Proposed Water Injection Conversions  
South Justis Unit B-12 and B-13**

**APPLICATION FOR AUTHORIZATION TO INJECT**

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

II. OPERATOR: HENRY PETROLEUM LP

ADDRESS : 3525 ANDREWS HIGHWAY - SUITE 200 - MIDLAND TX 79703-5000

CONTACT PARTY : ROY R. JOHNSON PHONE : (915)694-3000

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

IV. Is this an expansion of an existing project?  Yes  No  
If yes, give the Division order number authorizing the project R-9747 - CASE NO. 10554

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. See Exhibit V

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

VII. Attach data on the proposed operation, including: See Exhibit VII

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

\*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval. See Exhibit VIII

IX. Describe the proposed stimulation program, if any. See Exhibit IX

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

\*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. See Exhibit XI

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

XIII. Applicants must complete the 'Proof of Notice' section on the reverse side of this form. See Exhibit XIV

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: ROY R. JOHNSON TITLE: REGULATORY TECH.

SIGNATURE: *Roy R. Johnson* DATE: 08/24/2001

If the information required under Sections VI, VII, X, and XI above has been previously submitted, it need not be resubmitted.  
Please show the date and circumstance of the earlier submittal: \_\_\_\_\_

**APPLICATION FOR AUTHORIZATION TO INJECT**

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

II. OPERATOR: HENRY PETROLEUM LP

ADDRESS : 3525 ANDREWS HIGHWAY - SUITE 200 - MIDLAND TX 79703-5000

CONTACT PARTY : ROY R. JOHNSON PHONE : (915)694-3000

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Additional sheets may be attached if necessary. See Exhibit III

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If yes, give the Division order number authorizing the project R-9747 - CASE NO. 10554

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VII. Attach data on the proposed operation, including: See Exhibit VII

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

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

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SIGNATURE:  DATE: 08/24/2001

If the information required under Sections VI, VII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstance of the earlier submittal: \_\_\_\_\_

**Exhibit III**

**Well Data and Schematics  
Proposed Water Injection Conversions  
South Justis Unit B-12 and B-13**

INJECTION WELL DATA SHEET

OPERATOR: HENRY PETROLEUM LP

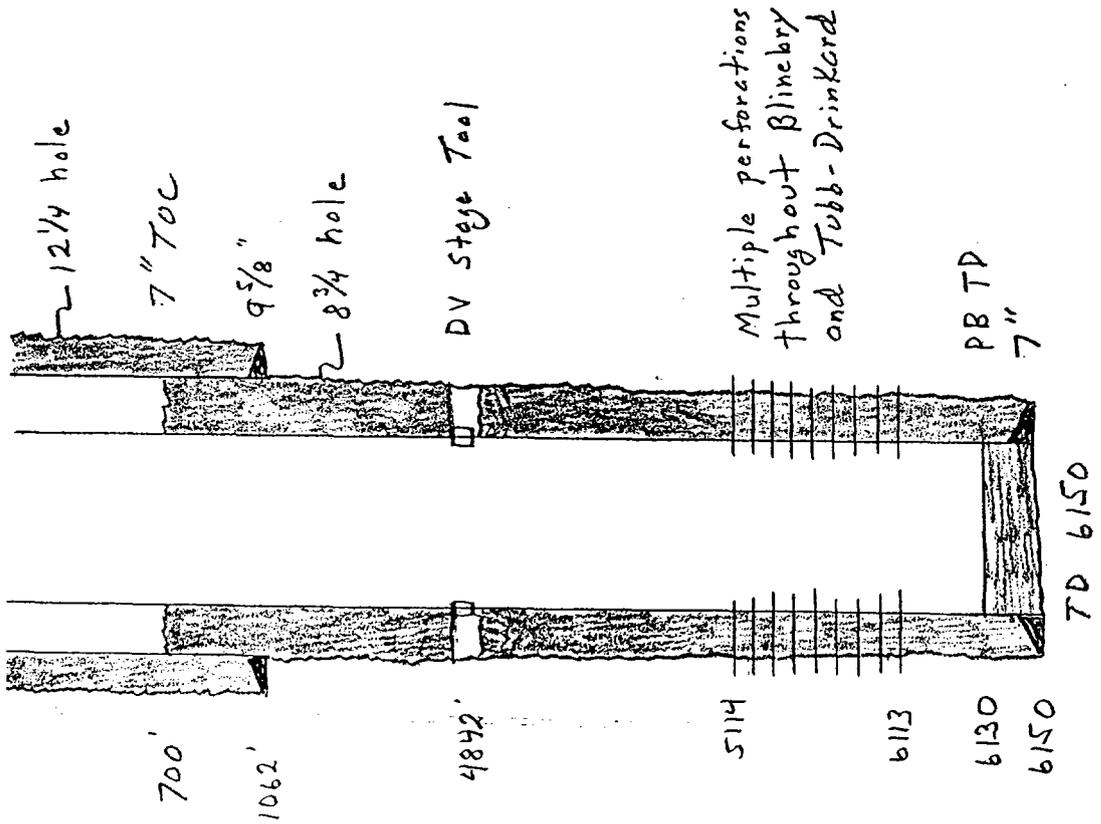
WELL NAME & NUMBER: SOUTH JUSTIS UNIT B-12 (30-025-20547)

WELL LOCATION: 1650' FNL & 2310' FWL

F UNIT LETTER SECTION TOWNSHIP RANGE  
11 25S 37E

FOOTAGE LOCATION

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12-1/4" Casing Size: 9-5/8"  
Cemented with: 536 sx. or 1062' ft  
Top of Cement: SURFACE Method Determined: CIRCULATED

Intermediate Casing

Hole Size: N/A Casing Size:  
Cemented with: sx. or ft  
Top of Cement: Method Determined:

Production Casing

Hole Size: 8-3/4" Casing Size: 7"  
Cemented with: 623 sx. or 6150' ft  
Top of Cement: 700' Method Determined: TEMP. SURV.

Total Depth: 6150'

Injection Interval

5114' feet to 6113'

(Perforated or Open Hole; indicated which)

**INJECTION WELL DATA SHEET**

Tubing Size: 2-3/8" Lining Material: INTERNALLY PLASTIC COATED

Type of Packer: GUIBERSON NP VI NICKEL PLATED - 7"

Packer Setting Depth: 5025'

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

Additional Data

1. Is This a new well drilled for injection? \_\_\_\_\_ Yes  No

If no, for what purpose was the well originally drilled? AS AN OIL AND GAS PRODUCER

2. Name of the Injected Formation: BLINEBRY-TUBB-DRINKARD

3. Name of Field or Pool (if applicable): JUSTIS BLINEBRY/TUBB-DRINKARD - SOUTH JUSTIS UNIT

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. NO

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injected zone in this area: FUTHER SOUTH WITHIN THE SOUTH JUSTIS UNIT. THE ABO IS PRODUCTIVE AND UNDERLIES THE DRINKARD BY APPROXIMATELY 200'. HOWEVER, WITHIN THE AREA OF REVIEW, THERE ARE NO PRODUCTIVE ZONES BELOW THE DRINKARD. THE GLORIETA OVERLIES THE BLINEBRY AND IS PRODUCTIVE OF GAS FROM 4740' TO 4800'.

Proposed Injection Wellbore Diagram

**Location:**  
 1650 FNL, 2310 FWL (F)  
 Section: 11  
 Range 37E  
 Twnshp 25S  
 County: Lea Co., NM

**Elevations:**  
 GL:  
 DF: 3128

**Gen. Well Info:**  
 Complet. Date: 10/15/1963  
 Status: WIW Conv.

**Casing Size:** 9.625  
**Setting Depth:** 1062  
**Hole Size:** 12.25  
**Cement :** 536 sx.  
**Cement Top:** surface - circulated

**Tubing Detail**

5025' 2 3/8 IPC tbg  
 Guiberson NP VI Pkr, Nickel coated

DV stage tool @4842

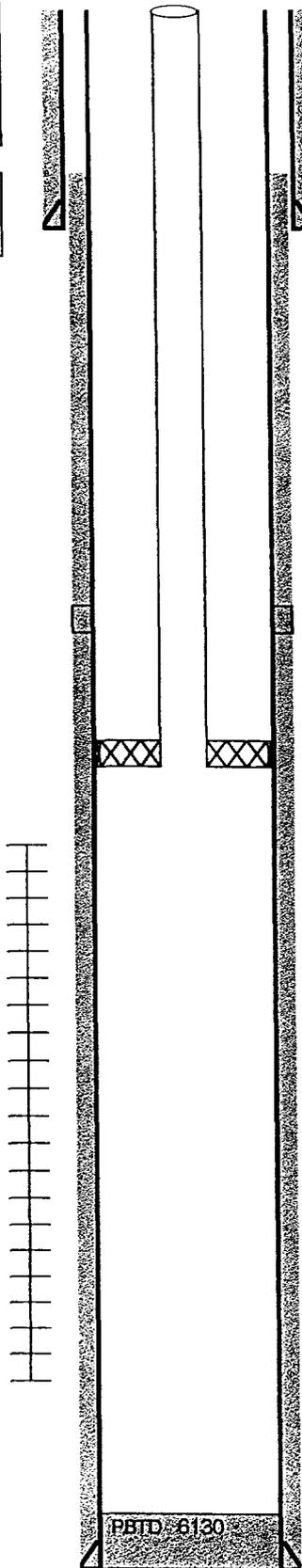
Pkr @ 5025'

**Perforations:**

5114

Selected Intervals

6113



PBTD 6130

Well TD: 6150

**Casing Size:** 7  
**Setting Depth:** 6150  
**Hole Size:** 8.75  
**Cement :** 623 sx  
**Cement Top:** 700' Temp Survey

**Updated:** 08/02/2001  
**By:** Van Temple

INJECTION WELL DATA SHEET

OPERATOR: HENRY PETROLEUM LP

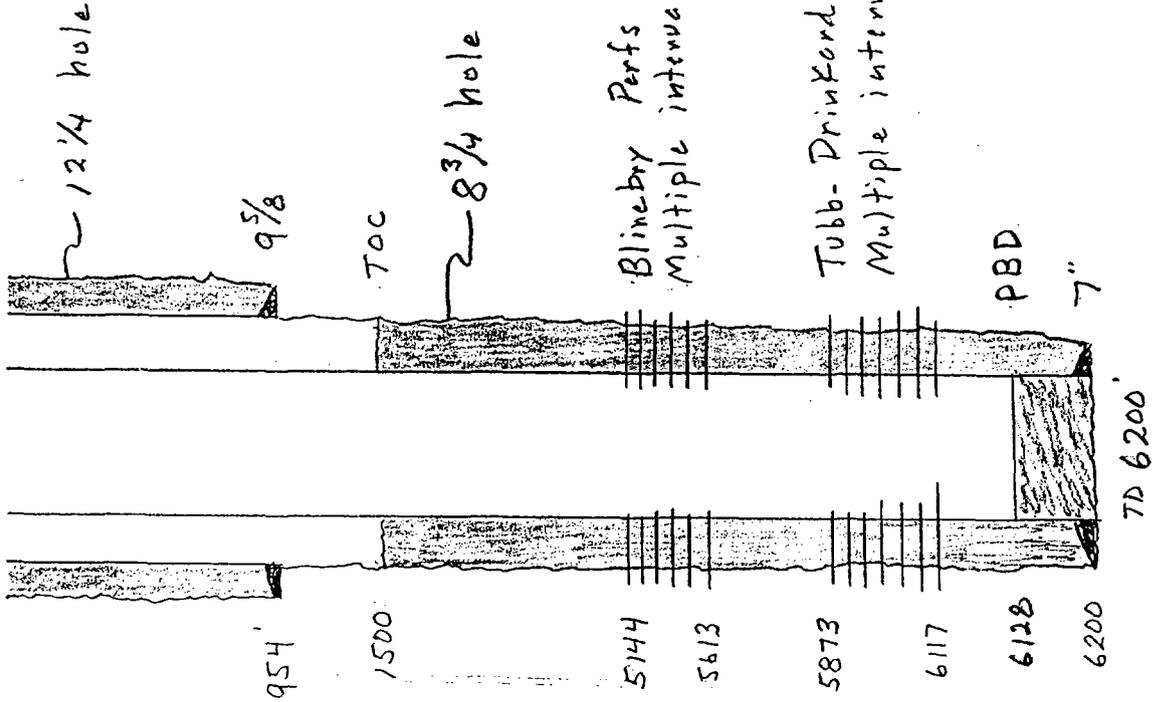
WELL NAME & NUMBER: SOUTH JUSTIS UNIT B-13 (30-025-21078)

WELL LOCATION: 2160' FSL & 2310' FWL

K UNIT LETTER SECTION 11 TOWNSHIP 25S RANGE 37E

FOOTAGE LOCATION

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12-1/4" Casing Size: 9-5/8"

Cemented with: 300 sx. or 954' ft

Top of Cement: SURFACE Method Determined: CIRCULATED

Intermediate Casing

Hole Size: N/A Casing Size:

Cemented with: sx. or ft

Top of Cement: Method Determined:

Production Casing

Hole Size: 8-3/4" Casing Size: 7"

Cemented with: 460 sx. or 6200' ft

Top of Cement: 1500' + - Method Determined: CALCU.

Total Depth: 6200'

Injection Interval

5144' feet to 6117'

(Perforated or Open Hole; indicated which)

**INJECTION WELL DATA SHEET**

Tubing Size: 2-3/8" Lining Material: INTERNALLY PLASTIC COATED

Type of Packer: 7" GUIBERSON NP VI NICKEL PLATED

Packer Setting Depth: 5050'

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

Additional Data

1. Is This a new well drilled for injection? \_\_\_\_\_ Yes X No

If no, for what purpose was the well originally drilled? OIL & GAS PRODUCING WELL

2. Name of the Injected Formation: BLINEBRY & TUBB-DRINKARD

3. Name of Field or Pool (if applicable): JUSTIS BLINEBRY/TUBB-DRINKARD - SOUTH JUSTIS UNIT

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. NO

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injected zone in this area: FURTHER SOUTH WITHIN THE SOUTH JUSTIS UNIT THE ABO IS PRODUCTIVE AND UNDERLIES THE DRINKARD BY APPROXIMATELY 200'. HOWEVER, WITHIN THE AREA OF REVIEW, THERE ARE NO PRODUCTIVE ZONES BELOW THE DRINKARD. THE GLORIETA FORMATION OVERLIES THE BLINEBRY AND IS PRODUCTIVE OF GAS FROM 4740' TO 4800'.

Proposed Injection Wellbore Diagram

**Location:**  
 2160 FSL, 2310 FWL (K)  
 Section: 11  
 Range 37E  
 Twnshp 25S  
 County: Lea Co., NM

**Elevations:**  
 GL:  
 DF: 3128

**Gen. Well Info:**  
 Complet. Date: 01/28/1965  
 Status: WIW Conv.

Casing Size: 9.625  
 Setting Depth: 954  
 Hole Size: 12.25  
 Cement : 300  
 Cement Top: surface - circulated

Tubing Detail

5050' 2 3/8 IPC tbg  
 Guiberson NP VI Pkr, Nickel coated

Pkr @ 5050'

Perforations:

5144

Selected Intervals

5613

5873

Selected Intervals

6113

PBTD 6130

Well TD: 6150

Casing Size: 7  
 Setting Depth: 6200  
 Hole Size: 8.75  
 Cement : 460 sx.  
 Cement Top: 1500" Calculated

Updated: 08/02/2001  
 By: Van Temple

Exhibit VI

Well Data Within Area of Review  
Proposed Water Injection Conversions  
South Justis Unit B-12 and B-13

EXHIBIT VI  
 Tabulation of Well Data  
 Proposed Water Injection Conversions  
 South Justis Unit B-12 and B-13

UWI (APINum)	Operator	Well Name	Well #	TD	Sec.	Twshp	Range	Location (Footage)			
30025331680100	TEXACO EXPL&PROD INC	NEW MEXICO 'BZ' STA	6	6500	2	25S	37E	480	FSL	1650	FWL
30025203260000	TEXACO INCORPORATED	STATE BZ NCT-10	4	6240	2	25S	37E	660	FSL	989	FWL
30025200030001	TEXACO INCORPORATED	STATE OF NM BZ NCT-	2	6150	2	25S	37E	990	FSL	1978	FWL
30025216480000	RHODES J CECIL	CORRIGAN	1	5555	11	25S	37E	990	FSL	990	FWL
30025207660000	UNION TEXAS PET CORP	OLSEN-STUART	1	6200	11	25S	37E	2310	FSL	2310	FWL
30025115410002	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	C-12	6130	11	25S	37E	2310	FNL	2310	FEL
30025201300000	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	C-11	6177	11	25S	37E	660	FNL	2310	FEL
30025202750001	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	B-11	6140	11	25S	37E	330	FNL	2310	FWL
30025203910000	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	C-14	6129	11	25S	37E	660	FSL	1980	FEL
30025205330001	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	A-11	6200	11	25S	37E	330	FNL	990	FWL
30025205440000	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	C-13	6150	11	25S	37E	2310	FSL	2310	FEL
30025205470000	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	B-12	6150	11	25S	37E	1650	FNL	2310	FWL
30025209940001	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	D-13	6200	11	25S	37E	1650	FSL	990	FEL
30025209950000	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	A-12	6180	11	25S	37E	1650	FNL	990	FWL
30025210580000	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	D-12	6175	11	25S	37E	2310	FNL	990	FEL
30025210780000	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	B-13	6200	11	25S	37E	2160	FSL	2310	FWL
30025211880000	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	D-11	6250	11	25S	37E	990	FNL	990	FEL
30025213280000	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	B-140	6240	11	25S	37E	990	FSL	2310	FWL
30025323160000	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	C-130	6150	11	25S	37E	2500	FSL	1650	FEL
30025323170001	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT WIW	C-140	6150	11	25S	37E	1200	FSL	1450	FEL
30025323180000	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	C-120	6150	11	25S	37E	1500	FNL	1550	FEL
30025323210000	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	B-110	6150	11	25S	37E	990	FNL	1650	FWL
30025323220000	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	C-131	6100	11	25S	37E	1655	FSL	2200	FEL
30025323480000	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	D-130	6150	11	25S	37E	2580	FNL	330	FEL
30025204920000	UNION TEXAS PET CORP	TWO STATE-STUART	1	6200	11	25S	37E	2310	FSL	990	FWL
30025208480001	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	B-150	6250	14	25S	37E	330	FNL	2310	FWL

NM "BZ" State NCT-10 #6

Current  
Wellbore Diagram

**Location:**  
480 FSL, 1650 FWL (N)  
Section: 2  
Range: 37E  
Twnshp: 25S  
County: Lea Co., NM

**Elevations:**  
GL: 3132'  
KB:

**Gen. Well Info:**  
Compleat. Date: 03/05/1996  
Status: Active  
  
Lateral Compleat  
Date: 01/09/2001

**Casing Size:** 8-5/8"  
**Setting Depth:** 1450'  
**Hole Size:**  
**Cement :** 725 sx  
**Cement Top:** Surface

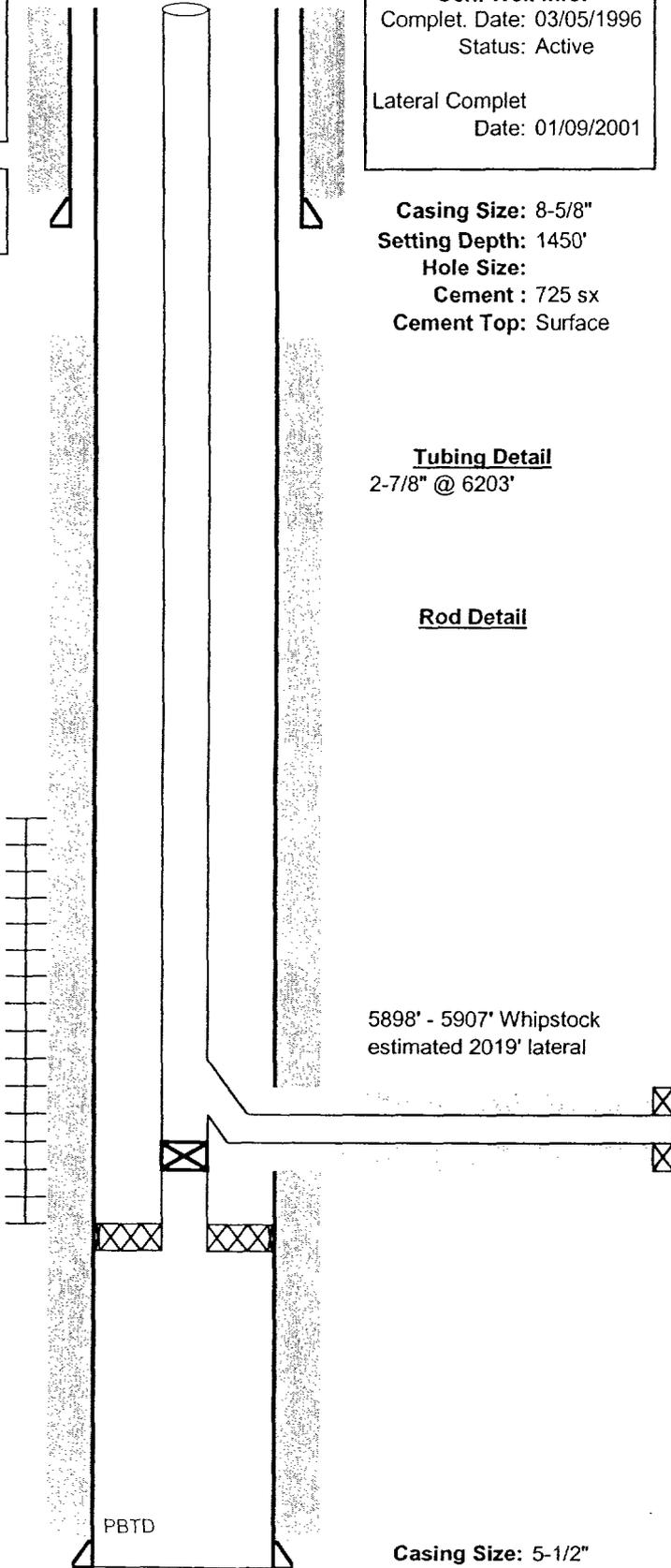
**Tubing Detail**  
2-7/8" @ 6203'

Rod Detail

Perforations:

Blinebry	5170' - 5763'
Tubb-Drinkard	5923' - 6226'
Horizontal	6385' - 7926'

5898' - 5907' Whipstock  
estimated 2019' lateral



PBTD

Well TD: 6500'

**Casing Size:** 5-1/2"  
**Setting Depth:** 6500'  
**Hole Size:**  
**Cement :** 2135 sx  
**Cement Top:**

## NM "BZ" State NCT-10 #6

LOCATION: 480 FsL & 1650 FwL (2-25S-37E)  
LEA COUNTY, NEW MEXICO

OPERATOR: Texaco Exploration & Production Inc.

BML TRACT NUMBER: API NUMBER: 30-025-33168

SPUD DATE: 02/15/96

KB: GL: TD: 6500' PBSD:

### CASING RECORD:

<u>Size</u>	<u>Wt</u>	<u>Grade</u>	<u>Depth</u>	<u>Cementing Record</u>
8-5/8"	24#	J-55	1450'	725 SX CIRC CMT
5-1/2"	15.5#	J-55	4370'	1475 SX CIRC
5-1/2"	17#	J-55	6500'	660 SX CIRC

### LOGS:

<u>Date</u>	<u>Company</u>	<u>Log Name</u>
02/25/96	Schlumberger	GR/DLL/MSFL/CNL/LDT/BCS

### INITIAL COMPLETION:

Date: 03/05/96  
Zone: Blinebry-Tubb-Drinkard  
Perforations: 6112-18', 6138-40', 6155-60', 6163-67', 6180-91', 6196-99',  
6204-26'. W/ 2 jspf, 86 holes.  
  
5923-34', 5940-44', 5949-51', 5965-74', 5981-84', 5988-94',  
6004-13', 6017-28', 6034-39'. W/2 jspf, 120 holes.  
  
5364-72', 5376-82', 5428-34', 5504-08', 5512-23', 5553-56',  
5674-77', 5717-19', 5742-53', 5758-63'. W/ 2 jspf, 118 holes.  
  
5170-92', 5205-10', 5220-22', 5233-46', 5255-63'. W/2 jspf,  
100 holes  
  
Stimulations: 6112' – 6216' w/ 5,500 gals 15% NEFE.  
5923' – 6039' w/ 3,000 gals 15% NEFE.  
5364' – 5763' w/ 7,500 gals 15% NEFE.  
5170' – 5263' w/ 2,500 gals 15% NEFE.

Initial Potentials: Pumped/ 24 HR., 64 BO, 62 BW, 88 MCF.

## NM "BZ" State NCT-10 #6

### TREATMENTS AND WORKOVERS

- 11/98            Acidized Perfs 5364' – 6216' w/ 3500 gals 15% 60/40 DAD acid.
- 11/2000        Horizontal completion. TIH w/csg scraper to 6200'. TIH w/CIBP and set @ 5910'. Set Cmt retainer @ 5007', pump 200 sx 'C' w/ 100 sx 'H' neat. Drill cmt from 4997' - 5250', 5744', 5764'. Tag CIBP @ 5907', TIH w/ Mills & tag CIBP @ 5905. TIH w/ Whipstock, orient Whipstock, set @ 19.5 deg. Mill 5898' – 5899, 5901', 5907'. Run Gyro. Drill from 5907'- 5911', 5933', 5964', 6184', 6311', 6372', 6387', 6487'. Rotary drill from 6467' – 6476', 6491', 6530', 6593', 6624', 6786', 6845', 6940', 6985', 7004', 7019', 7035', 7067', 7111', 7193', 7288', 7306', 7359', 7400', 7481', 7489', 7527', 7715', 7735', 7779', 7797', 7926'. Acidize w/ 15% HCL from 6385' – 7926' w/ 60,000 gals. Tbg @ 6231', SN @ 6202', Ttac @ 5509'. Pumping 196 BO, 50 BW, 110 MCF, 24 Hr.

NM "BZ" State NCT-10 #4

**Current Wellbore Diagram**

**Location:**  
 660 FSL, 989 FWL (M)  
 Section: 2  
 Range: 37E  
 Twnshp: 25S  
 County: Lea Co., NM

**Elevations:**  
 GL:  
 KB: 3154'

**Gen. Well Info:**  
 Complet. Date: 10/22/1963  
 Status: Active

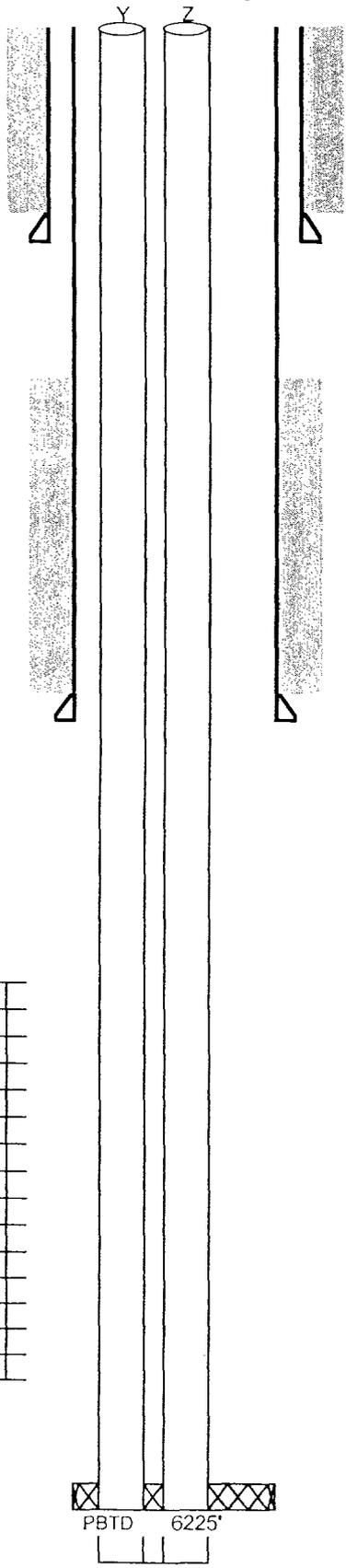
**Casing Size:** 11-3/4"  
**Setting Depth:** 255'  
**Hole Size:**  
**Cement:** 350 sx  
**Cement Top:** Surface

**Tubing Detail**  
 2-7/8" @ 6239' Y - String  
 Set w/ 850 sx.  
 2-7/8" @ 6240' Z - String  
 Set w/ 850 sx.

**Rod Detail**

**Perforations:**

<b>Y - String</b>	
Blinebry	5273' - 5672'
(Inactive)	
<b>Z - String</b>	
Tubb-Drinkard	6002' - 6151'
(Inactive)	
Blinebry	5270' - 5275'
(Active)	



PBTD 6225'  
 Well TD: 6240'

7-7/8" Hole

**Casing Size:** 8-5/8"  
**Setting Depth:** 3500'  
**Hole Size:**  
**Cement:** 850 sx  
**Cement Top:** 2607'

# Well History

**WELL NAME:** NEW MEXICO "BZ" STATE NCT-10 #4

**LEGAL LOCATION:** 660' FSL & 989' FWL (M), Sec. 2, T-25S, R-37E, Lea County, New Mexico

**OPERATOR:** Texaco Inc.

**BLM TRACT NUMBER:** Not in Unit

**API NUMBER:** 3002520326

**SPUD DATE:** 8/22/63      **KB:** 3154'      **GL:** \_\_\_\_\_      **PBD:** 6225'      **TD:** 6240'

CASING:	SIZE, IN.	WT. LB/FT	SET DEPTH	SACKS CMT	TOP OF CMT
	11-3/4"		255'	350	Circ.
	8-5/8"		3500'	850	2607'
	2-7/8"		6239'	850	
	2-7/8"		6240'	850	

**LOGS:**

Date	Company	Log Name
------	---------	----------

**CURRENT COMPLETION / STATUS:** Blinbry & Tubb/Drinkard Shut-In 11-91.

**INITIAL COMPLETION:**

**DATE:** 10/19/63

**ZONE:** Blinbry & Tubb/Drinkard

**PERFORATIONS:** Bly: 5417, 18, 74, 75, 5529, 30, 62, 63, 95, 5640, 43, 46, 52, 69, 72—total 15 perms.  
Drinkard: 6002, 03, 12, 13, 30, 31, 55, 56, 82, 83, 6105, 12, 29, 35, 44, 51—16 perms.

**STIMULATION:** Bly: Acidized 5640-72 w/3,000 gals. Frac'd w/10,000 gals & 10,000# sd.  
Sqzd 5640-72 w/125 axs. DO to 5660'. Re-acidize w/1,000 gals.  
Re-frac 5640-72' w/5,000 gals LO & 3,100 #sd. Set CIBP @ 5620'  
Acidize 5417'-5595' w/2,500 gals.  
Tubb/Drinkard: Acidize 6002-83' w/3,500 gals. Acidize 6105-6151' w/3,000 gals.  
Frac 6105'-6151' w/10,000 gals LO & 10,000 #sd. Set CIBP @ 6093'.

**INITIAL POTENTIALS:**

Blinbry (5417'-5595')	<u>37</u> BOPD	<u>17</u> MCFD	<u>149</u> BWPD	<u>    </u> FLWG	<u>X</u> PMPG
	<u>37.2</u> GRAVITY	<u>456</u> GOR (CF/BO)	<u>    </u> PRESSURE	<u>    </u> CHOKE	
Tubb/Drinkard (6002'-6083')	<u>336</u> BOPD	<u>243</u> MCFD	<u>8</u> BWPD	<u>X</u> FLWG	<u>    </u> PMPG
	<u>36.7</u> GRAVITY	<u>723</u> GOR (CF/BO)	<u>300</u> PRESSURE	<u>24/64"</u> CHOKE	

**DATE:**      **TREATMENTS AND WORKOVERS**

4/12/70      Perf Bly @ 5273, 75, 79, 80, 83, 85, 91, 97, 98, 99, 5305, 06, 37, 61, 79, 87, 99  
5404', 12, 15, 21, 24, 30, 39 (total 24 perms)  
Acidized w/1,000 gals. Frac'd w/20,000 gals & 20,000 #sd.  
No new potential.

## NM "BZ" State NCT-10 #4

### TREATMENTS AND WORKOVERS

- 02/74            Perforate Blinbry w/ 4 jspf from 5270' – 5275'.
- 12/77            Repair casing leak, Set RBP & packer, perforate w/ 2 jet shots @ 2840'. Squeeze perforations w/ 600 sx Hallite cmt followed by 10 sx 'C' cmt., Pumped 190 sx 'C'cmt up intermediate casing. Perforate Tubb-Drinkard zone w/ 2 jspf @ 5270', 5271', 5272', 5273', and 5275'. Set RBP @ 5340' & packer @ 5215', acidize perforations w/500 gals 15% HCL NE, flush w/ 10 bbls water.

NM "BZ" State NCT-10 #2

**Current**  
Wellbore Diagram

**Location:**  
900 FSL, 1978 FWL (N)  
Section: 2  
Range: 37E  
Twnshp: 25S  
County: Lea Co., NM

**Elevations:**  
GL:  
KB: 3151'

**Gen. Well Info:**  
Compleat. Date: 07/09/1963  
Status: Active

**Casing Size:** 13-3/8"  
**Setting Depth:** 246'  
**Hole Size:**  
**Cement :** 350 sx  
**Cement Top:** Surface

**Tubing Detail**  
2-7/8" @ 5107' X - String,  
Set w/ 1250 sx, TOC 1693'.  
2-7/8" @ 6148' Y - String  
Set w/ 1250 sx, TOC 1693'.  
2-7/8" @ 6150' Z - String  
Set w/ 1250 sx, TOC 1693'.

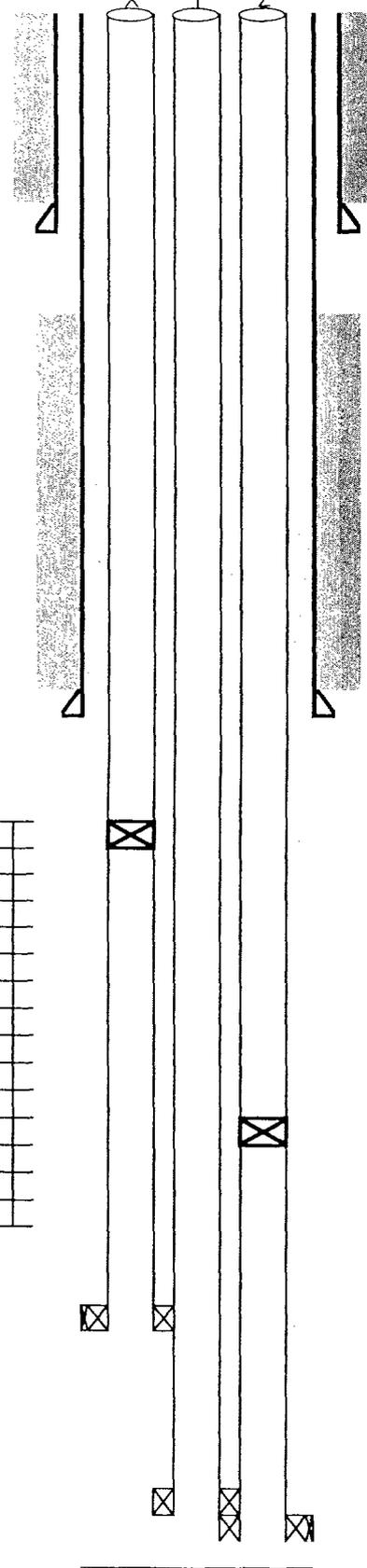
**Rod Detail**

CIBP 4310' - X String

CIBP 5700' - Y String

Perforations:

<b>X- String</b>		
San Andres	4310' - 4390'	⊗
(Plug & Abandoned)		
Glorieta	4812' - 4906'	⊗
(Plug & Abandoned)		
<b>Y- String</b>		
Blinebry	5208' - 5615'	⊗
(Plug & Abandoned)		
<b>Z- Sting</b>		
Tubb-Drinkard	6026' - 6081'	⊗
(Inactive)		
Blinebry	5208' - 5615'	⊗
(Active)		



Well TD: 6150'

**8-3/4" Hole**

**Casing Size:** 9-5/8"  
**Setting Depth:** 3500'  
**Hole Size:**  
**Cement :** 850 sx  
**Cement Top:** 634'

## Well History

Well Name: New Mexico "BZ" State NCT-10 #2  
Legal Location: 990' FSL & 1978' FWL (N), Sec. 2, T-25S, R-37E, Lea County, N.M.  
Operator: Texaco  
BLM Tract Number: Not in Unit  
API Number: 3002520003  
Spud Date: 6-6-63 KB: 3151' GL: PBD: 6119' TD: 6150'

Casing:	Size (In)	Depth (ft)	Sxs Cmt	Top Of Cmt
	13-3/8	246	350	Circ
	9-5/8	3500	850	634'
	2-7/8	5107	1250	1693'
	2-7/8	6148	1250	1693'
	2-7/8	6150	1250	1693'

Logs:  
Current Status: Active Blinebry Producer

Initial Completion: Blinebry & Tubb/Drinkard (7-9-63)

Perforations: Glorieta-4812'-18 (6), 4829-33 (4), 4873-76 (3), 4901'-06 (4)--21 perms.  
Blinebry-5580', 82, 91, 5607', 09, 15--total of 7 perms.  
Tubb/Drinkard-6026', 33, 41, 61, 71, 75, 81--total of 7 perms.

Treatments: Glorieta-Acidized w/2,000 gals. Swbd 38 BW in 7 hrs. P&A'd.  
Blinebry-Acidized w/3,500 gals. SOF w/10,000 gals LO & 10,000# sand.  
Drinkard-Acidized w/3,000 gals. SOF w/10,000 gals LO & 7,500# sd.

Initial Potentials: Blinebry  
110 BOPD 200 MCFD 0 BWPD 1818 GOR  
36.2° gravity 600 PSIG FCP on 12/64" choke.

Tubb/Drinkard  
192 BOPD 104 MCFD 0 BWPD 542 GOR  
36.9° gravity 650 PSIG FCP on 13/64" choke.

### Treatments & Workovers:

~~12-20-69~~ Plugged Drinkard @ 5700'.  
Perf'd Blinebry @ 5208'-14 (6), 5223-30 (7), 5234-44 (10), 5298, 5340, 41, 65, 5409, 14, 15, 85, 87, 88, 5496-98 (2), 5534-38 (4), 80, 91, 5607, 09, 14, 15--total of 47 perms. Acidized with 3,000 gals. Frac'd with 20,000 gals & 20,000 # sd. No new potential.

## NM "BZ" State NCT-10 #2

### TREATMENTS AND WORKOVERS

- 03/72 Perforate San Andres zone, 4310' – 4390' w/2 jspf. Set bridge plug @ 4420' w/ 10' pf cement on top. Acidize San Andres perforations down 2-78" casing w/ 4000 gals. Ran injectivity test. Convert well to SWD.
- 10/72 Repair casing leak, Set RBP @ 5000', dump 10' sand on RBP. Set packer above casing leak & squeeze below packer w/ 100 sx cement.
- 06/73 Repair casing leak @ 3600' – 3632', Set RBP @ 5010', dump 10' sand on RBP. Set packer above casing leak & squeeze below packer w/ 100 sx cement.
- 06/73 Change status, Shut-In SWD well.
- 11/77 Return well to production, Blinbry zone. Squeezed abandoned San Andres perforations w/ 1200 sx, tested w/ 800#.

# WELLBORE SCHEMATIC

Cmt Plug (10 sxs) @ Surface

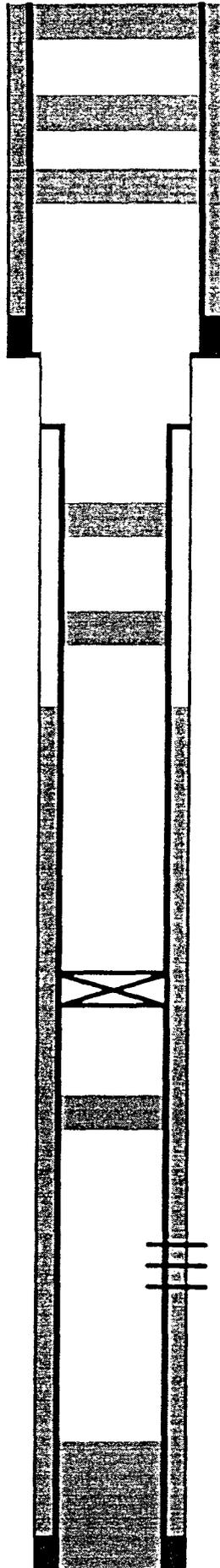
Cmt Plug (50 sxs) @ 500'

Cmt Plug (50 sxs) @ 820'

12-1/4" hole.

8-5/8" casing @ 982'.

Set w/450 sxs cmt. Circ.



## Corrigan #1

Cecil Rhodes

990' FSL & 990' FWL (M)

Sec. 11, T-25S, R-37E, Lea Co., NM

KB 3130'

Spudded 02/16/66

Completed 03/16/66

P&A'd 12/10/90

Top of 4-1/2 csg @ 1020'

Spot 40 sxs of cmt @ 1070'

Spot 40 sxs of cmt @ 1843'

TOC @ 2200' by TS.

Plug @ 4691'

Spotted 40 sxs cmt @ 5150'

Blinebry perms @ 5254' to 5448'.

PBD @ 5522'

TD @ 5553'.

7-7/8" hole.

4-1/2" csg @ 5553' w/550 sxs cmt.

# CORRIGAN #1

**LOCATION:** 990' FSL & 990' FWL (M), SEC. 11, T-25S, R-37E  
LEA COUNTY, NEW MEXICO

**FORMER OPERATOR:** CECIL RHODES

**BLM TRACT NUMBER:**                      **API NUMBER:**                      3002521648

**SPUD DATE:**                      2/16/66

KB: 3130'                      GL: 3117                      TD: 5555'                      PBTD: 5522'

## **CASING RECORD:**

<u>Size</u>	<u>Wt</u>	<u>Grade</u>	<u>Depth</u>	<u>Cementing Record</u>
8-5/8"	24#	J-55	982'	450 sxs cmt, circ
4-1/2"	10.5#	J-55	5553'	550 sxs cmt, (TOC @ 2200' TS)

## **LOGS:**

<u>Date</u>	<u>Company</u>	<u>Log Name</u>
3/13/66	Schlumberger	GR, Sonic, LL, MLL

## **DST's:**

**INITIAL COMPLETION:** IP Blinebry (5254-5448'), Flwd 99 BO, 22 BW, TP 200#  
GOR 1870, Gravity 37.8°

**INITIAL COMPLETION DATE:**                      3/16/66

## **TREATMENTS AND WORKOVERS**

SI 12-67 - Converted to SWD well. Excluded from Unit

Blinebry Perfs: 5254', 88', 5309', 30', 57', 67', 86', 5441', 48'  
Acidized w/2000 gals, Frac'd w/20,000 gals oil, 30,000# sd

12-5-90                      Circulated hole with mud. Spotted 40 sxs of "C" cmt at 5150'

12-6-90                      Tagged plug at 4691'. Attempted to cut pipe and pull from 1823'.  
Pipe pulled up 20 feet and stuck.

## CORRIGAN #1

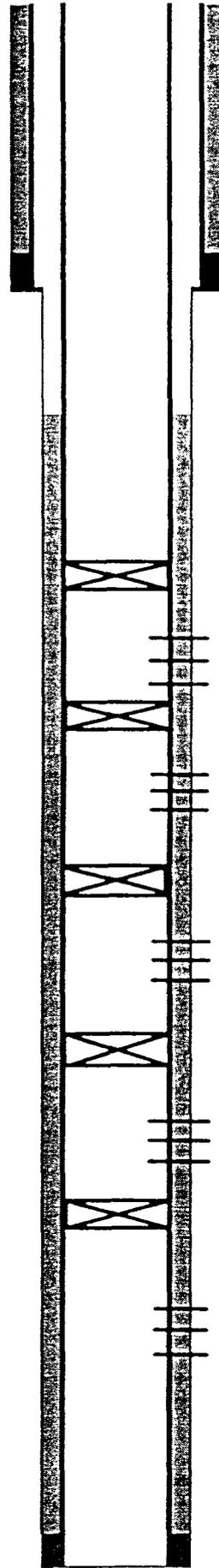
- 12-7-90                   Circulated hole with mud. Spot 40 sxs of "C" cmt at 1843'. Cut pipe again at 1020 feet. Pulled 1020 of 4-1/2" casing. Circulate hole and mix mud. Spot 40 sxs of "C" cmt at 1070'.
- 12-8-90                   TIH with tubing. Got low tag. Spot another 50 sxs of "C" cmt w/2% CaCl. WOC. Tagged plug at 820'. Pulled to 500'. Spot 50 sxs of "C" cmt. Pulled to surface. Spot 10 sxs at surface.
- 12-10-90                 Cut off wellhead, weld on dry hole marker.

# WELLBORE SCHEMATIC

## Olsen Stuart #1

Meridian/Union Texas  
2310' FSL & 2310' FWL (K)  
Sec. 11, T-25S, R-37E, Lea Co., NM  
KB 3127'  
Spudded 05-22-64  
Completed 07/23/64  
TA'd 04/29/91

12-1/4" hole.  
8-5/8" casing @ 1001'.  
Set w/340 sxs cmt. Circ.



TOC @ 2100' by TS

CIBP @ 3150'

Queen perfs @ 3205' to 3348'

BP @ 4845'

Glorieta perfs @ 4858' to 4969'

BP @ 4985'

Paddock perfs @ 4990' to 5030'

BP @ 5170'

Blinebry perfs @ 5347' to 5613'

BP @ 5800'

Tubb/Drinkard perfs @ 5873' to 6144'

7-7/8" hole.  
5-1/2" csg @ 6200' w/500 sxs cmt.

TD @ 6200'.

# OLSEN STUART #1

**LOCATION:** 2310' FSL & 2310' FWL (K), SEC. 11, T-25S, R-37E  
LEA COUNTY, NEW MEXICO

**OPERATOR:** MERIDIAN

**BLM TRACT NUMBER:** 37      **API NUMBER:** 3002520766

**SPUD DATE:** 5/22/64

KB: 3127'      GL: 3116'      TD: 6200'      PBTD:

## CASING RECORD:

<u>Size</u>	<u>Wt</u>	<u>Grade</u>	<u>Depth</u>	<u>Cementing Record</u>
8-5/8"	24#		1001'	340 sxs cmt, circ
5-1/2"	15.5#		6200'	500 sxs cmt, (TOC @ 2100'-TS)

## LOGS:

<u>Date</u>	<u>Company</u>	<u>Log Name</u>
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## DST's:

**INITIAL COMPLETION:** IP Blinebry (5347-5613"), Flwd 432 BO, on 14/64" choke  
Tubb/Drinkard (5873-6144"), Flwd 425 BO, on 9/64" choke

**INITIAL COMPLETION DATE:** 7/23/64

## TREATMENTS AND WORKOVERS

Drinkard Perf: 5989', 6001', 6013', 21', 32', 44', 59', 68', 81', 92', 6117',  
24', 44'.  
Acidized w/2000 gals  
Frac'd w/15,000 gals oil, 15,000# sd

Tubb Perf: 5873', 84', 95', 5909', 12', 22', 51', 55', 58'  
Acidized w/2000 gals  
Frac'd w/15,000 gals oil, 15,000# sd

Blinebry Perf: 5347', 53', 61', 5403', 14', 38', 5478', 5501', 40', 78', 93',  
5613', Acidized w/2000 gals, Frac'd w/10,000 gals oil & 10,000# sd

## OLSEN STUART #1

- 1-23-65 Set BP @ 5800' w/1 sx cmt. Set BP @ 5170' w/1 sx cmt  
Perf'd Paddock at 4990', 91', 92', 94', 96', 99', 5000', 01', 02',  
03', 05', 06', 08', 09', 11', 13', 14', 15', 17', 18', 20', 21', 23',  
26', 27', 28', 30'.  
Acidized w/2000 gals. Formation did not produce.
- 1-25-65 Set BP above Paddock at 4985'. Perf Glorieta at 4858', 62', 65', 67',  
70', 85', 90', 95', 98', 4900', 04', 08', 14', 23', 27', 38', 44', 48',  
54', 59', 62', 66', 69'.  
Acidized w/1000 gals. Formation did not produce.
- 1-27-65 Set BP w/1 sx cmt at 4845'. Perf'd Queen at 3205', 15', 35', 40',  
50', 55', 65', 75', 3335', 45', 48', & 1 spf 3220-30' &  
3280-3330'. Acidized w/500 gals. Frac'd w/15,000 gals oil  
and 15,000# sd.
- 5-1-65 Well purchased by Union Texas.
- 4-29-91 Set CIBP @ 3150'. Load hole w/75 bbls of packer fluid. Tested casing  
to 400#. Well TA'd



## SOUTH JUSTIS UNIT "C" #12

**LOCATION:** 2310' FNL & 2310' FEL (G), SEC. 11, T-25S, R-37E  
LEA COUNTY, NEW MEXICO

**FORMER OPERATOR:** ARCO OIL AND GAS COMPANY

**FORMER WELL NAME:** LANGLIE "B" (JH) #1

**BLM TRACT NUMBER:** 30                      **API NUMBER:** 3002511541

**SPUD DATE:** 5/1/61 (RE-SPUD 10/24/63)

KB: 3130'                      GL: 3121'                      TD: 6120'                      PBSD: 6070'

### **CASING RECORD:**

<u>Size</u>	<u>Wt</u>	<u>Grade</u>	<u>Depth</u>	<u>Cementing Record</u>
8-5/8"			355'	300 sxs cmt, circ
5-1/2"			6130'	1800 sxs cmt, (TOC @ 1510' - TS)

### **LOGS:**

<u>Date</u>	<u>Company</u>	<u>Log Name</u>
11/9/63	Schlumberger	Sonic, LL, MLL, MOP
1/03/96	Wedge	CPNL f/WLTD

### **DST's:**

**INITIAL COMPLETION:** IP Blinebry (5300-5572'), Flwd 134 BO, TP 500#,  
GOR, 1142, Gravity 38°, 14/64" choke  
Tubb/Drinkard (5831-6098'), Flwd 346 BO, GOR 1472,  
TP 1100#, Gravity 39°, 21/64" choke

**INITIAL COMPLETION DATE:** 5/14/61 - P&A'd  
12/1/63 - Completed

### **PERFORATIONS:**

<u>Date</u>	<u>Density</u>	<u>Perforations</u>
11/14/63	1 SPF	5956, 69, 84, 93, 6001, 30, 49, 64, 73, 98
11/17/63	1 SPF	5831, 42, 54, 75, 89, 98, 5913, 18
11/23/63	1 SPF	5300, 05, 10, 46, 85, 5435, 45, 57, 75, 5536, 47, 72
01/70	?	5117, 25, 31, 35, 42, 47, 57, 63, 81, 85, 91, 5202, 09, 18, 22, 26, 30, 35, 43
1/4/96	1 SPI	5574, 584, 585, 586, 5613, 622, 640, 668, 695, 5733, 760, 765, 769, 779, 784, 5804, 805, 806, 821, 5829'

## SOUTH JUSTIS UNIT "C" #12

### TREATMENTS AND WORKOVERS:

- 11/14/63 Drinkard Perfs: 5956', 69', 84', 93', 6001', 30', 49', 64', 73', 98'  
5956-6098 -- acidized w/2,000 gals acid.
- 11/18/63 Tubb Perfs: 5831', 42', 54', 75', 89', 98', 5913', 18'  
5831-5918 -- acidized w/2,000 gals acid & frac'd w/15,000 gals ref. oil & 15,000# sd.
- 11/24/63 Blinebry Perfs: 5300', 05', 10', 46', 85', 5435', 49', 57', 75', 5536', 47', 72'  
5300-5572 -- acidized w/2,000 gals acid & frac'd w/10,000 gals ref. oil & 10,000# sd.
- 01/70 Added perfs in Blinebry - 5117', 25', 31', 35', 42', 47', 57', 63', 81', 85', 91', 5202', 09',  
18', 22', 26', 30', 35', & 43'.  
Frac'd w/80,000 gals & 120, 000#
- 1/04/96 Added perfs 5574'-5829'. Set and Test SAP Tool at 4952-OK, Fish Dart Valve GIH  
w/tool to 5799 and set. BJ acidize 5831-6098' w/1000 gals 15% HCL and 27 BS, Slight  
ball action flush to 6098'. Max PSI-400# Min PSI-VAC Air-5 BPM, ISIP-VAC. Drop  
Dart Valve and ICV Valve, ICV open at 1500#, Close at 500#, spot acid to tool, JBJ  
acidize 5536-5829 w/75 gals 15% HCL per foot. All new perfs broke. Fish ICV POH  
w/Tool, TOP two elements damaged, GIH w/5 1/2 N-1 Mech. Set CIBP to 5502'. Set  
CIBP POH to 3060 w/setting tool
- 1/05/96 POH w/setting tool, GIH w/PKR to 5498 and set test CIBP to 1000#-OK, PU to  
5062 and set PKR BJ acidize 5117-5474 w/1000 gals 15% HCL and 46 BS, Slight  
Ball action, flush to 5474, MAX PSI-75#, Min. PSI-VAC Air-5.4 BPM, ISIP-VAC  
Rel. PKR, POH LD 2 7/8 WS and PKR. GIH w / 3 1/2" drill bailer to 5502 and Knock  
Out CIBP and chase to Btm-6070'. POH w/Bailer GIH w/2 3/8 CA to 6046'.
- 12/26/96 Rod repair, Pulled rods to ¾ body break 201 from surface, fish and replace rod. Hot Oil  
w/ 40 Barrels, Change Pump.
- 03/15/97 Rod repair, Pulled rods to ¾ body break 112 from surface, fish and replace rod.
- 06/02/97 Rod repair, Pulled rods to ¾ body break 173 from surface, lay down all rods due to  
corrosion. Ran new Norris C grade rods w/t couplings, plus 10 KD guided.
- 07/30/97 Acidize/Stimulate, 110 gals SS-5203 in 2000 gals of 15% HCL. Flush w/ 50 barrels of  
2% KCL. Shut-in for 1 hour. Pumped 165 gals SI-4003, 110 gals HCL, and 400# CaCl.  
Flush w/ 150 barrels of lease water w/ 10 gals of 9124.
- 04/14/98 Pump repair, Plunger full of scale.
- 07/06/98 Slow unit down from 14.6 spm to 10 spm.
- 09/03/98 Pump slow to pressure up against closed valve & bleed off when valve is opened.  
Sand in TV & SV. Replace 7-3/4 amd 2-7/8 on bottom due to pitting.
- 11/03/98 Upgrade unit from C114 to C320.
- 02/24/99 Slowed unit by 2.5 spm to 6.7 spm.

# WELLBORE SCHEMATIC

## South Justis Unit C #11

(ARCO Jal #2)

660' FNL & 2310' FEL (B)

Sec. 11, T-25S, R-37E, Lea Co., NM

KB 3133'

Spudded 10/15/63

Completed 11/15/63

13-3/4" hole.  
9-5/8" casing @ 979'.  
Set w/673 sxs cmt. Circ.

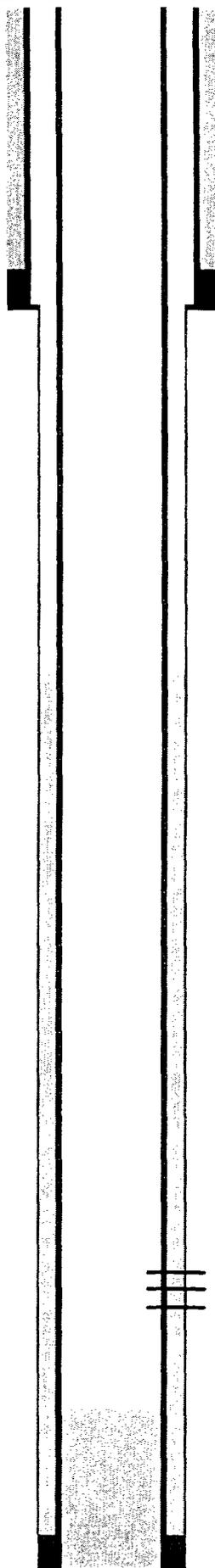
TOC @ 3000' by TS.

Blinebry/Tubb/Drinkard perms  
@ 5063' to 6114'

PBD @ 6100'

8-3/4" hole.  
7" csg @ 6176' w/600 sxs cmt.

TD @ 6177'.



# SOUTH JUSTIS UNIT "C" #11

LOCATION: 660' FNL & 2310' FEL (B), SEC. 11, T-25S, R-37E  
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: JAL #2

BLM TRACT NUMBER: 2                      API NUMBER: 3002520130

SPUD DATE: 10/15/63

KB: 3133'                      GL: 3121'                      TD: 6177'                      PBTD: 6100'

## CASING RECORD:

<u>Size</u>	<u>Wt</u>	<u>Grade</u>	<u>Depth</u>	<u>Cementing Record</u>
9-5/8"	32#		979'	673 sxs cmt, circ
7"	36#		6176'	600 sxs cmt, (TOC @ 3000' - TS)

## LOGS:

<u>Date</u>	<u>Company</u>	<u>Log Name</u>
11-6-63	Schlumberger	Sonic Log

## DST's:

INITIAL COMPLETION: OPT 309 BOPD/GOR 120 from Tubb/Drinkard  
OPT 240 BOPD/GOR 600 from Blinebry

INITIAL COMPLETION DATE: 11/15/63

## PERFORATIONS:

<u>Date</u>	<u>Density</u>	<u>Perforations</u>
11/63	4 SPF	5290-5310
11/63	1 SPF	5998, 6009, 24, 44, 62, 6114
01/27/76	1 SPF	5063, 67, 71, 81, 85, 90, 98, 5104, 10, 16, 21, 25, 30, 37, 46, 54, 59, 64, 82, 86, 95, 5203, 10, 14, 18, 5223
01/27/76	1 SPF	5729, 85, 91, 99, 5805, 23, 39, 43, 52, 60, 67, 71, 5878, 5907, 38, 49, 57, 64, 74, 6031, 47, 73, 6101
8/95	1 SPI	5364, 388, 5417, 438, 461, 5505, 535, 567, 583

## SOUTH JUSTIS UNIT "C" #11

### TREATMENTS AND WORKOVERS

- 11/63 Perf Tubb/Drinkard 5998', 6009', 24', 44', 62', 6114'  
Acidized w/850 gals 15% LSTNEA & frac'd w/15,000 gals lease crude & 15,000# sd.
- Perf Blinebry - 5290-5310' (4 spf). OPT 240 BOPD/GOR 600  
Acidized w/500 gals mud acid & 500 gals 15% LSTNEA & frac'd w/20,000 gals lease crude & 20,000# sd.
- 01/76 Perf Blinebry - 5063', 67', 71', 75', 85', 89', 94', 5102', 08', 14', 20', 25', 29', 34', 41', 50', 58', 63'
- Perf Tubb/Drinkard - 5729', 33', 89', 95', 5803', 09', 27', 43', 47', 56', 64', 71', 76', 82', 5911', 42', 53', 61', 69', 78', 6035', 51', 77', 6105'.  
5729-6114 -- acidized w/2,500 gals 15% HCL - LSTNEA.
- 02/02/76 5729-6114 -- frac'd w/60,000 gals slick 2% KCL & 13,500# 100 mesh sd & 78,000# 20/40 sd.
- 02/04/76 5063-5310 -- acidized w/1,500 gals 15% HCL.
- 02/05/76 5063-5310 -- frac'd w/70,000 gals slick brine & 80,000# 20/40 sd.
- 02/80 Downhole commingled
- 11/89 Pumped 1500 gals acid down csg
- 8/11/95 Perforations (1 SPI) 5364, 5388, 5417, 5438, 5461, 5505, 5535, 5567, 5583;  
FIH w/SAP tool to 5012', set tool, load and test 7" Csg. to surface w/500#-OK.  
GIH w/tool to 5609, set and test tool to 4000#-OK. Picklet tbg., drop ICV valve.  
Open - 1200#, close - 200#, move tool to 5589', spot acid to tool. BJ acidize new perms f/5364-5589', 1 SPI 9 holes w/75 gals/perf of 15% HCL. Move tool to 5012', fish valves. Set tool, BJ acidize all perms f/5063-6101' w/1000 gals 15% HCL. Flush to 6101', Max-400#, Min.-50#, AIR-8 1/2 BPM, ISIP, VAC. POH, LD 2 7/8 Ws and tool.
- 08/97 Rod repair, Hot oiled well to pull rods, rods had heavy scale deposition. Acid/surfactant wash w/ 110 gals SI-4803. Batch treated w/ 5 gals CT-9124 to re-establish corrosion inhibitor. Ran new grade C rods.
- 09/97 Replaced bottom 12 jts of tubing, tested rest of string in hole. Upgrade pumping unit from M160 to M456.
- 10/97 Tubing repair.
- 01/98 Replace Pump. Pump valve and rod guide worn.
- 02/98 Rod repair. Ran new rods.
- 02/99 Rod repair. Down grade unit to C320.
- 07/2000 Slow unit by 3.3 spm to 6.6 spm.

# WELLBORE SCHEMATIC

## South Justis Unit B #11

(Meridian Stuart 6)

330' FNL & 2310' FWL (C)

Sec. 11, T-25S, R-37E, Lea Co., NM

API 30-025-20275

KB 3136'

Spudded 06/26/63

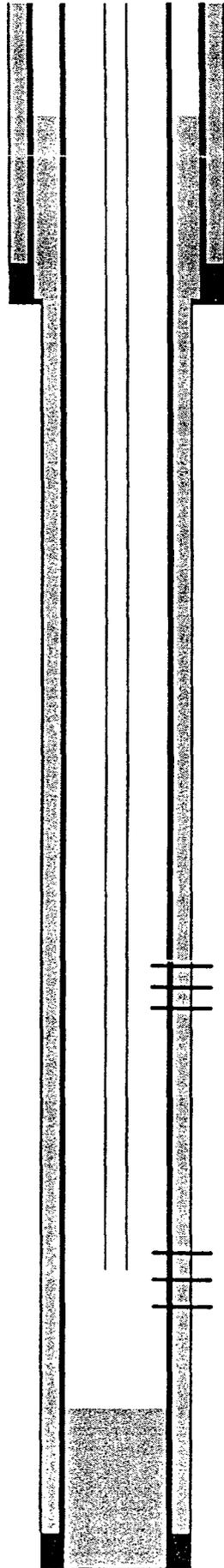
Completed 07/21/63

TOC @ 700' by TS.

13-3/4" hole.

9-5/8" casing @ 1135'.

Set w/396 sxs cmt. Circ.



Blinebry perms @ 5114' to 5676'.

2-3/8" tbg @ 6086'.

Tubb/Drinkard perms @ 5852' to 6108'

PBD @ 6118'

8-3/4" hole.  
7" csg @ 6138' w/520 sxs cmt.

TD @ 6140'.

# SOUTH JUSTIS UNIT "B" #11

**WELL NAME:** SOUTH JUSTIS UNIT "B" #11

**LOCATION:** 330' FNL & 2310' FWL (C), SEC. 11, T-25S, R-37E  
LEA COUNTY, NEW MEXICO

**FORMER OPERATOR:** MERIDIAN

**FORMER WELL NAME:** STUART #6

**BLM TRACT NUMBER:** 3                      **API NUMBER:** 3002520275

**SPUD DATE:** 6/26/63

KB: 3136'                      GL: 3124'                      TD: 6140'                      PBSD: 6118'

**CASING RECORD:**

<u>Size</u>	<u>Wt</u>	<u>Grade</u>	<u>Depth</u>	<u>Cementing Record</u>
9-5/8"	36#	H-40/J-55	1137'	396 sxs cmt, circ
7"	20/23#	J-55/N-80	6138'	520 sxs cmt, (TOC @ 700' - TS) DV tool @ 4796', cmt'd w/520 sxs

**LOGS:**

<u>Date</u>	<u>Company</u>	<u>Log Name</u>
7/19/63	Pan Geo	GR, Acoustic log

**DST's:**

1	Tubb/Drinkard	5955-6017'	Open 2', Rec 250" mud, 30' ISIP 245, FP 138-138, 30" FSIP 235
2	Tubb/Drinkard	6025-6140'	Open 2', rec 400' O&GCM & 170' salt wtr CM, 30" ISIP 1660, FP 235-335, 1 hr FSIP 455
3		4730-4800'	Open 2', rec 340' HGCSW, 110

**INITIAL COMPLETION:** IP Blinebry (5328-5550'), Flwd 206 BO on 12/64" choke  
Tubb/Drinkard (6025-6108'), Flwd 241 BO & 27 BW, TP 659#,  
12/64" choke

**INITIAL COMPLETION DATE:** 7/21/63

## SOUTH JUSTIS UNIT "B" #11

### PERFORATIONS:

<u>Date</u>	<u>Density</u>	<u>Perforations</u>
05/69	1 SPF	5114, 24, 28, 38, 46, 60, 76, 84, 5204, 08, 14, 24, 34, 42, 54, 66, 75, 82, 5313, 73, 5407, 13, 18, 31, 40, 61, 90, 5530, 40, 57, 69, 96, 5612, 22, 30, 58, 76
08/63	?	5328, 38, 46, 97, 5438, 75, 81, 5550
05/69	?	5852, 56, 82, 5925, 31, 38, 48, 60, 69, 80
07/63	?	6025, 34, 46, 67, 6100, 08

### TREATMENTS AND WORKOVERS:

- 07/63-- Perf Tubb/Drinkard @ 6025', 34', 46', 67', 6100', 08'. Acidized (6025-6108) w/8,000 gals DS-50 acid & frac'd w/15,000 gals lease oil & 15,000# sd. 6 - 1/2" holes.  
Perf Blinebry 5328', 38', 46', 97', 5438', 75', 81', 5550'. Acidized 5328-5550 w/500 gals acid & frac'd w/20,000 gals GWB & 20,000# sd 8 - 1/2" holes.
- 05/65 ~ Acidized w/Blinebry & Tubb/Drinkard w/1000 gals in each zone
- 05/69 ~ Squeezed 5328-6108' w/200 sx (Blinebry & Tubb/Drinkard)  
Perf Tubb/Drinkard at 5852', 56', 82', 5925', 31', 38', 48', 60', 69' & 80'  
Acidized (5852-5980) w/15,000 gals acid & frac'd w/20,000 gals gel wtr & 20,000# sd.  
Perf Blinebry at 5114', 24', 28', 38', 46', 50', 60', 76', 84', 5204', 08', 14', 24', 34', 42', 54', 66', 75', 82', 5313', 73', 5407', 13', 18', 31', 40', 61', 90', 5530', 40', 57', 69', 96', 5612', 22', 30', 58', 76'.  
Acidized 5114-5576 w/2,000 gals 15% HCL & frac'd w/80,000 gals GWB & 20,000# sd.  
Blinebry - Pump 71 BO, 180 BW; Tubb/Drinkard - Pump 8 BO, 18 BW in 14 hrs. Junk pkr at 6067' - PBD 6068'
- 09/69 -- Blinebry - Pump 23 BO & 120 BW; Tubb/Drinkard - Pump 20 BO, 10 BW  
Tubb/Drinkard TA'd.
- 06/93 : Clean out 7" casing to 6118' PBD. Pressure test casing from 5089' to surface 500# for 30 minutes. Acidized perms 5114' to 6108' w/3,000 gals.
- 09/94 Rod repair, run New Rods load and test.
- 05/95 Pump repair, pull pump and rods, Drop standing valve. Load 21 barrels, test to 700#, fish valve. Ran pump and rods, load & test to 500#.

# WELLBORE SCHEMATIC

## South Justis Unit C #14

(ARCO Justis Federal #2)

660' FSL & 1980' FEL (O)

Sec. 11, T-25S, R-37E, Lea Co., NM

API 30-025-20391-00

KB 3147'

Spudded 09/04/63

Completed 10/11/63

12-1/4" hole.  
8-5/8" casing @ 958'.  
Set w/620 sxs cmt. Circ.

TOC @ 2250' by TS.

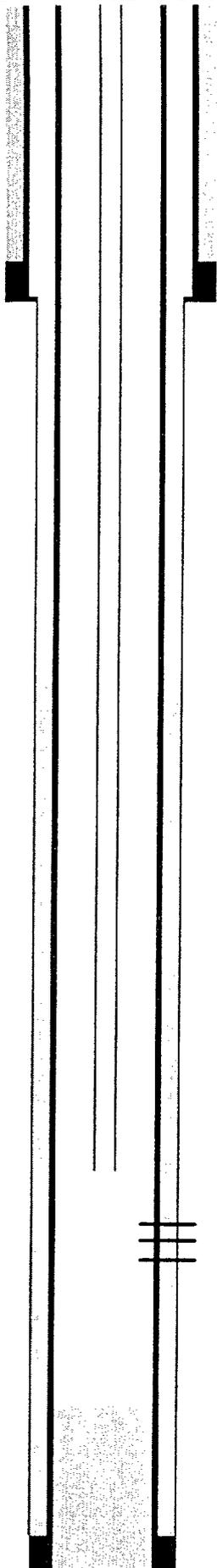
2-3/8" tubing @ 4985'.

Blinebry-Tubb/Drinkard  
Perfs @ 5103' to 6085'.

PBD @ 6091'

7-7/8" hole.  
4-1/2" csg @ 6128' w/1286 sxs cmt.

TD @ 6129'.



## SOUTH JUSTIS UNIT "C" #14

**LOCATION:** 660' FSL & 1980' FEL (O), SEC. 11, T-25S, R-37E  
LEA COUNTY, NEW MEXICO

**FORMER OPERATOR:** ARCO OIL AND GAS COMPANY

**FORMER WELL NAME:** JUSTIS FEDERAL #2

**BLM TRACT NUMBER:** 5                      **API NUMBER:** 3002520391

**SPUD DATE:** 8/27/58

KB: 3147'                      GL:                      TD: 6129'                      PBSD: 6091'

### **CASING RECORD:**

<u>Size</u>	<u>Wt</u>	<u>Grade</u>	<u>Depth</u>	<u>Cementing Record</u>
8-5/8"	24#		958'	620 sxs cmt, circ
4-1/2"	10.5#		6128'	1286 sxs cmt, (TOC @ 2250' -TS)

### **LOGS:**

<u>Date</u>	<u>Company</u>	<u>Log Name</u>
10/2/63	Schlumberger	Sonic Log

### **DST's:**

1	3297-3370'	Qn, GTS 6', Rec 120 mud, ISIP 347#, IFP 96 FFP 114, FSIP 341
2	4992-5069'	Pd, Rec 290' SOGCM, 70' XW, ISIP 1438, IFP 149, FFP 213, FSIP 836

**INITIAL COMPLETION:** IP Blinbry (5318-24'), P 69 BO/4 hrs, GOR 650

**INITIAL COMPLETION DATE:** 10/11/63

### **PERFORATIONS:**

<u>Date</u>	<u>Density</u>	<u>Perforations</u>
10/09/63	4 JSPF	5399-5407
10/09/63	4 JSPF	5318-5324
08/07/78	1 JSPF	5103, 09, 20, 27, 34, 37, 42, 55, 58, 60, 80, 86, 93, 5200, 12, 20, 53, & 5257

## SOUTH JUSTIS UNIT "C" #14

### PERFORATIONS (continued):

<u>Date</u>	<u>Density</u>	<u>Perforations</u>
06/94	1 SPF	5522', 54', 60', 68', 87', 5621', 45', 74', 91', 5702', 57', 64', 83', 96', 5807', 13', 18', 22', 83', 5903', 07', 25', 34', 43', 48', 62', 72', 86', 6016', 23', 35', 39', 54', 65', 72', 82', and 85' (37' @ 1 SPF = 37 perfs)

### TREATMENTS AND WORKOVERS:

Core #1	5110-86' Blinebry
Core #2	5186-5248' Blinebry
10/63	Perf Blinebry 5399-5407'. 5399/5407 -- acidized w/500 gals mud acid & 500 gals 15% LSTNEA & frac'd w/6,000 gals L.O. & 6,000# sd; 3,000 gals L.O. & 5,000# sd; and 1,000 gals L.O. & 1,000# sd. Perf 5318-24'. OPT 69 BO/4 hrs, GOR 650. 5318-5324 -- acidized w/500 gals mud acid & 500 gals 15% LSTNEA & frac'd w/6,000 gals L.O. & 6,000 # sd; 2,000 gals L.O. & 3,300# sd; and 1,000 gals L.O. & 1,000# sd.
08/78	Perf Blinebry 5103', 09', 20', 27', 34', 37', 42', 55', 58', 60', 80', 86', 93', 5200', 12', 20', 53', 57'. OPT 41 BOPD, GOR 4146 (Pumping) 5103-5257 -- acidized w/1,800 gals 15% KLEEN FLO acid & frac'd w/40,050 gals foam frac, 52,500# sd & 1,035,951 cuft nitrogen in 3 equal stages.
06/94	Pressure tested 4-1/2" casing to 700# (5000'-surface). Cleaned out junk and fill from 5415'-6091' PBD. Added Blinebry-Tubb/Drinkard perfs 5522'-6085' (see Perforations above for individual perf information). Acidized Blinebry-Tubb/Drinkard perfs 5522'-6085' w/2,000 gals. Also acidized perfs 5103'-5407' w/2,000 gals. Frac'd Blinebry-Tubb/Drinkard perfs 5103'-6085' w/91,000 gals Viking 1-35/30 and 266,000# sand (209,000# 20/40 Brady and 57,000# 12/20 Brady). Cleaned out sand to 6091' PBD. Set 2-3/8" tubing @ 4985'.
07/94	Bridle broke. Lower tubing by 23 jts, add 30 7/8 rods. Re-space pump.
07/94	Clean out frac sand from 5852' to 6120'.
07/96	Pump repair.
02/97	POH w/ rods & pump. Ran exchange pump, load and tested.
02/98	Pump repair, Iron sulfide on pump and paraffin on rods, hot watered.
07/98	Upgrade unit from C160 to C320. Hot watered tubing for paraffin. Repair pump.
02/99	Inhibit well. Pumped 2000 gals 15% HCL down casing w/ 165 gals SI-4003 & 40 barrels fresh water. Flush w/ 150 barrels. Pump repair due to scale.
03/99	Pump repair, Install back pressure valve.
04/99	Unseated pump, pumped soapy water down tubing. Re-seated pump & pumped soapy water down backside. Replace plunger and barrel.
08/2000	Acidized, pumped 2000 gals 15% NEFE w/ 220 gals super ASOI down casing.

# WELLBORE SCHEMATIC

## South Justis Unit A #11

(Chevron /ARCO J. A. Stuart #8)

330' FNL & 990' FWL (D)

Sec. 11, T-25S, R-37E, Lea Co., NM

API 30-025-20533

KB 3138'

Spudded 09/22/63

Completed 11/07/63

12-1/4" hole.  
9-5/8" casing @ 1159'.  
Set w/500 sxs cmt. Circ.

TOC @ 2480' by TS.

Sqzd 01/85

Blinebry Perfs 5209' to 5562'.

Set 2-3/8" tbg @ 6135'

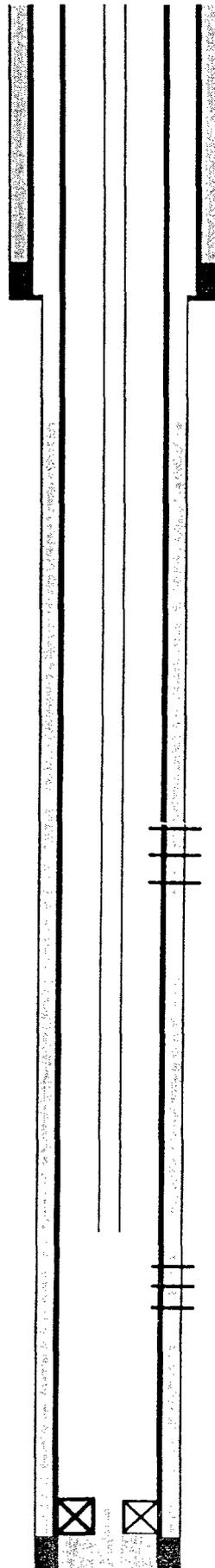
Blinebry-Tubb/Drinkard perfs @ 5138' to 6152

Packer @ 6160'

PBD @ 6160'

TD @ 6200'.

8-3/4" hole.  
7" csg @ 6200' w/450 sxs cmt.



## SOUTH JUSTIS UNIT "A" #11

**WELL NAME:** SOUTH JUSTIS UNIT "A" #11  
**LOCATION:** 330' FNL & 990' FWL (D), SEC. 11, T-25S, R-37E  
LEA COUNTY, NEW MEXICO

**FORMER OPERATOR:** CHEVRON/ARCO

**FORMER WELL NAME:** J. A. STUART #8

**BLM TRACT NUMBER:** 36                      **API NUMBER:** 3002520533

**SPUD DATE:** 9/22/63

KB: 3138'                      GL: 3127'                      TD: 6200'                      PBD: 6160'

### **CASING RECORD:**

<u>Size</u>	<u>Wt</u>	<u>Grade</u>	<u>Depth</u>	<u>Cementing Record</u>
9-5/8"			1159'	500 sxs cmt, circ
7"	20-23#	J-55	6200'	450 sxs cmt, (TOC @ 2480' TS)

### **LOGS:**

<u>Date</u>	<u>Company</u>	<u>Log Name</u>
10/13/63	Schlumberger	GR-Sonic, MLL, LL, MOP

### **DST's:**

**INITIAL COMPLETION:** IP Blinebry (5209-5562'), P 509 BOPD, 22 BWPD, GOR 450  
IP Tubb/Drinkard (6004-6152'), P 272 BOPD, 73 BWPD, GOR 493

Spot 1000 gals 15% NEA on btm. Perf'd 6004'-06', 6030'-32;  
6044'-46', 6056'-58', 6110'-12', 6129'-31', 6150'-52' w2-1/2"  
JHPF. Frac w/6000 gals gel lease oil and 32,000# sd.

**INITIAL COMPLETION DATE:** 11/7/63

### **TREATMENTS AND WORKOVERS**

6-68                      P&A Tubb/Drinkard. Pulled tbg left 7 jts in hole, top @ 5618', set CIBP @ 5616' capped w/2 sx cmt. PBD 5606'.  
3-71                      Drl'd out cmt & CIBP - Fished tbg, pushed Baker Model "D" down hole to 6160'. DHC Tubb, Drinkard & Blinebry  
3-72                      Perf 7" csg @ 5209-13', 5246-50', 5286-90', 5312-16', 5373-77'  
w/2-1/2" JHPF, Break down new perms w/625 gals 15% NEA. Frac treat new perms w/5 stages of 6000 gals gel wtr w/2 ppg sd. Last 4 stages

## SOUTH JUSTIS UNIT "A" #11

### TREATMENTS AND WORKOVERS (continued)

- preceded by 8-7/8" RCN balls RBP set @ 5967' w/2 sx sd on top to TA Tubb/Drinkard.
- 10-72 Pull RBP, CDH all Bline, Tubb, Drinkard.
- 11-79 Replaced entire tbg string
- 1-85 Squeezed perms 5209-5377', 5416-5562' w/800 sx cmt. Drill out cmt, C/O to 6160'. Acidized perms 6004-6152' w/1000 gals 15% NEFE.
- 12-88 SI
- 10-93 Clean out 7" casing to 6160' PBD. Pressure test casing to 500# for 30 minutes (5134' to surface).  
Added perforations from 5138'-5944' (66' @ 1SPF = 66 perms). 5138', 5140', 5147', 5153', 5157', 5172', 5175', 5182', 5196', 5200', 5204', 5211', 5223', 5230', 5240', 5249', 5254', 5263', 5274', 5288', 5295', 5304', 5314', 5325', 5329', 5339', 5344', 5346', 5375', 5389', 5403', 5410', 5419', 5429', 5432', 5479', 5491', 5499', 5514', 5519', 5529', 5534', 5544', 5551', 5559', 5561', 5571', 5621', 5630', 5637', 5650', 5674', 5678', 5687', 5736', 5739', 5755', 5793', 5797', 5835', 5873', 5879', 5906', 5934', 5938', and 5944'.  
Acidized Blinebry-Tubb/Drinkard perms 5138'-6152' w/8000 gals.

# WELLBORE SCHEMATIC

## South Justis Unit C #13

(Meridian Justis #1)

2310' FSL & 2310' FEL (J)

Sec. 11, T-25S, R-37E, Lea Co., NM

API 30-025-20544

KB 3041'

Spudded 12/06/63

Completed 01/25/64

12-1/4" hole.  
9-5/8" casing @ 1010'.  
Set w/490 sxs cmt. Circ.

TOC @ 1920' (Measured)

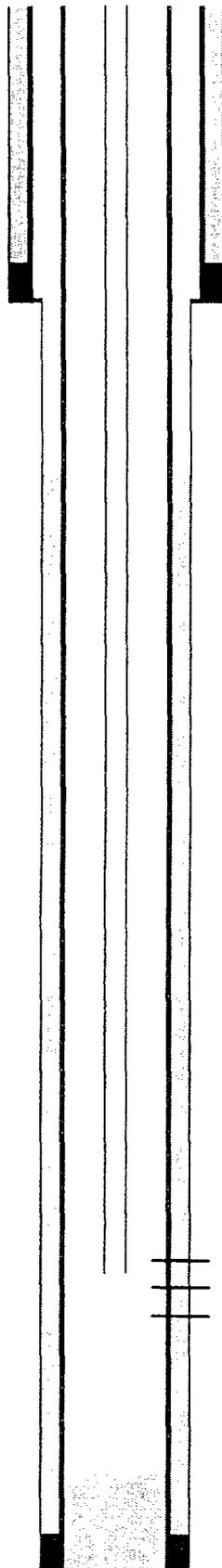
2-3/8" tbg @ 6092'.

Blinebry/Tubb/Drinkard perms @ 5109'to 6115'

PBD @ 6124'.

TD @ 6150'.

8-3/4" hole.  
7" csg @ 6150' w/475 sxs cmt.



## SOUTH JUSTIS UNIT "C" #13

**LOCATION:** 2310' FSL & 2310' FEL (J), SEC. 11, T-25S, R-37E  
LEA COUNTY, NEW MEXICO

**FORMER OPERATOR:** MERIDIAN

**FORMER WELL NAME:** JUSTIS #1

**BLM TRACT NUMBER:** 9                      **API NUMBER:** 3002520544

**SPUD DATE:** 12/06/63

KB: 3041'                      GL: 3025'                      TD: 6150'                      PBSD: 6124'

### **CASING RECORD:**

<u>Size</u>	<u>Wt</u>	<u>Grade</u>	<u>Depth</u>	<u>Cementing Record</u>
9-5/8"			1010'	490 sxs cmt, circ
7"			6150'	475 sxs cmt

### **LOGS:**

<u>Date</u>	<u>Company</u>	<u>Log Name</u>
12/26/63	PGAC	Sonic, MLL, LL

### **DST's:**

**INITIAL COMPLETION:** IP Blinebry (5297-5515'), Flwd 202 BO, 13 BW, TP 650#,  
12/64" choke, Gravity 35°  
Tubb/Drinkard (5844-6115'), Flwd 128 BO & 7 BW, TP 725#,  
10/64" choke, Gravity 36°

**INITIAL COMPLETION DATE:** 1/25/64

### **PERFORATIONS:**

<u>Date</u>	<u>Density</u>	<u>Perforations</u>
1964	?	5297-5515 -- Blinebry
1964	?	5844-5893 -- Tubb/Drinkard
1964	?	5969-6115 -- Tubb/Drinkard
1995	1 SPI	5109, 125, 133, 152, 162, 184, 194, 5202, 225, 251, 5582, 595, 5613, 625, 653, 678, 5706, 714, 733, 786, 5793

### **TREATMENTS AND WORKOVERS:**

1964

Drinkard Perfs: 5959', 65', 72', 78', 86', 6003', 17', 6028', 33', 44', 52', 61',  
78', 89', 6102', 15'.  
Acidized w/2,000 gals acid & frac'd w/15,000# sd.

## SOUTH JUSTIS UNIT "C" #13

### TREATMENTS AND WORKOVERS (continued):

1964

Tubb Perfs: 5844', 48', 59', 67', 75', 79', 87', 93'  
Acidized w/2,000 gals acid & frac'd w/15,000# sd.

1964

Blinebry Perfs: 5297', 5306', 17', 24', 85', 89', 5409', 55', 76', 5515'  
Acidized w/2,000 gals acid & frac'd w/20,000# sd.

06/93

Cleaned out 7" casing to 6124' PBD. Pressure test casing to 500# for 30 minutes (5054' to surface).

8/95

Perforations (1 SPI) 5109, 125, 133, 152, 162, 184, 194, 5202, 225, 251, 5582, 595, 5613, 625, 653, 678, 5706, 714, 733, 786, 5793  
FIH w/SAP tool to 5800', set tool and test to 4000#-OK. Rel. tool and pickle tbg., drop ICV valve open at 1400#, close at 600#. Move tool to 5793 and set. Spot acid to tool thru by-pass. BJ acidize new perfs 5109'-5793'. 1 SPI, 21 holes w/75 gals 15% HCL per perf. **New perfs very tight.** Fish valves, BJ acidize all perfs w/1000 gals 15% HCL., flush to 6115'.

10//95

Pump repair, pump bent and worn. Replace pump.

04/96

Pump stuck due to scale, would not stroke. Change pump.

09/97

Increase unit from 9.8 spm to 10.7 spm.

12/99

Slow unit from 10.7 spm to 7.9 spm.

02/2000

Rod repair. Pulled rods to ¾ body break 176 from surface. Replaced 54 due to wear and pits. Changed bottom from 15 guided to 5.

03/2000

Azidized down casing. Pumped 2000 gals of 15% NEFE w/ 220 gals of super ASOL.

04/2000

Hole in tubing. Scanalog tubing and replace 13 red, plus 20 below split collar. Replaced 55-3/4 and 15-7/8 due to pits.

# WELLBORE SCHEMATIC

## South Justis Unit B #12

(Meridian Stuart #7)

1650' FNL & 2310' FWL (F)

Sec. 11, T-25S, R-37E, Lea Co., NM

API 30-025-20547

KB 3128'

Spudded 09/07/63

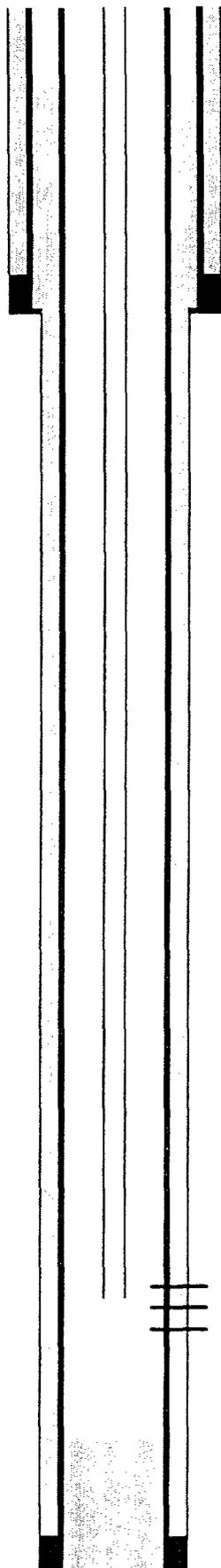
Completed 10/15/63

TOC @ 700' by TS.

12-1/4" hole.

9-5/8" casing @ 1062'.

Set w/536 sxs cmt. Circ.



2-3/8" tubing @ 6127'.

Blinebry/Tubb/Drinkard perms @  
5114'-6113'

PBD @ 6130'

TD @ 6150'.

8-3/4" hole.

7" csg @ 6150' w/623 sxs cmt.

## SOUTH JUSTIS UNIT "B" #12

**WELL NAME:** SOUTH JUSTIS UNIT "B" #12

**LOCATION:** 1650' FNL & 2310' FWL (F), SEC. 11, T-25S, R-37E  
LEA COUNTY, NEW MEXICO

**FORMER OPERATOR:** MERIDIAN

**FORMER WELL NAME:** STUART #7

**BLM TRACT NUMBER:** 3                      **API NUMBER:** 3002520547

**SPUD DATE:** 9/7/63

KB: 3131'              GL: 3117'              TD: 6150'              PBSD: 6117'

**CASING RECORD:**

<u>Size</u>	<u>Wt</u>	<u>Grade</u>	<u>Depth</u>	<u>Cementing Record</u>
9-5/8"	32.75#	H-40	1062'	536 sxs cmt + 50 sxs, circ
7"	20/23#		6150'	623 sxs cmt, (TOC @ 700' by TS)

**LOGS:**

<u>Date</u>	<u>Company</u>	<u>Log Name</u>
10/7/63	Welex	GR, Sonic, Guard, Forxo

**DST's:**

1	Paddock	4977-5034'	Open 2', Rec 2250' gas, 120' O&GC DF, + 360' sul wtr, 30" ISIP 765#, FP 127-233#, 1 hr FSIP 1190#
2	Blinebry	5310-5425'	Open 2-1/2', GTS 3", OTS-45#, F 60 BO in 1' 45", 30" ISIP 2412, FP 424-914#, 1-1/2 hrs, FSIP 2253#
3	Blinebry	5465-5585'	Open 30", rec 100' DF, 30" ISIP 347#, FP 102-112#, 30" FSIP 306#
4	Tubb/Drinkard	5830-5923'	Open 1-1/2', GTS 3", Rec 100' O&GC, DF & 1350' oil; 30" ISIP 2537, FP 228-518#, 1' FSIP 2502#
5	Tubb/Drinkard	5965-6044'	Open 1', rec 40' DF, 30 ISIP 297#, FP 106-106, 30" FSIP-329#
6	Tubb/Drinkard	6044-6150'	Open 1', rec 210' mud, 30" ISIP 316#, FP 91-132#, 30" FSIP 173#

## SOUTH JUSTIS UNIT "B" #12

**INITIAL COMPLETION:** IP Blinebry (5307-5478'), Flwd 698 BO, 22 BW, TP 450#, Gravity 38.5°  
Tubb/Drinkard (5849-6113'), Flwd 563 BO, TP 100#, 3/4" choke  
Gravity 37.8°

**INITIAL COMPLETION DATE:** 10/15/63

**PERFORATIONS:**

<u>Date</u>	<u>Density</u>	<u>Perforations</u>
10/63	?	5307, 24, 32, 37, 43, 65, 95, 5412, 30, 36, 55, 78
10/63	?	5849, 55, 59, 67, 99, 5908, 25
10/63	?	5968, 85, 99, 6009, 15, 33, 39, 51, 75, 93, 6106, 13
9/15/95	1 SPI	5114, 131, 137, 158, 177, 198, 5213, 222, 234, 241, 266, 5547, 579, 593, 5613, 621, 635, 644, 667, 677, 5748, 770, 798, 5821'

**TREATMENTS AND WORKOVERS:**

10/63 Perf Drinkard 5968', 85', 99', 6009', 15', 33', 39', 51', 75', 93',  
6106', 13, acidized (5968-6113) w/2,000 gals acid & frac'd w/15,000 gals &  
16,000# sd  
Perf Tubb 5849', 55', 59', 67', 99', 5908', 25'  
Acidized (5849-5925) w/2,000 gals acid & frac'd w/15,000 gals oil, 16,000# sd  
Perf Blinebry 5307', 24', 32', 37', 43', 65', 95', 5412', 30', 36'  
55', 78', Acidized (5307-5478) w/2,000 gals acid & frac'd w/20,000 gals gelled acid and  
20,000# sd.

07/74 Set CIBP at 5495' & dumped 15' cmt on top. Tubb/Drinkard P&A'd.

04/93 Clean out 7" casing to 6130' PBD. Pressure test 7" casing to 500# for 30  
minutes from 5200' to surface.

9/16/95 GIH w/SAP tool to 5087', set tool and test to 4000# FIH w/tool to 5830',  
pickle tbg. drop ICV valve. open at 1480#, close at 520#, spot acid to tool.  
BJ acidize new perfs f/5114-5821 w/75 gals per perf of 15% HCL. All perfs  
broke fish valves, set pkr. at 5106', BJ acidize all perfs f/5114-6113 w/1000  
gals 15% HCL, flush to 6113'.

12/04/2000 Pump repair, plunger stuck.

01/11/2001 Acidize and stimulate. Pull tubing, scan tubing and replace 40 red due to pits. Run bit &  
scrapper to TD, pump 1000 gals 15%NEFE. Acidized perfs w/1000 gals + 90 BFW.

# WELLBORE SCHEMATIC

## South Justis Unit D #13

(Meridian Justis #2)

1650' FSL & 990' FEL (I)

Sec. 11, T-25S, R-37E, Lea Co., NM

API 30-025-20994

KB 3138'

Spudded 02/15/64

Completed 04/28/64

12-1/4" hole.  
9-5/8" casing @ 958'.  
Set w/100 sxs cmt. Circ.

TOC @ 2870' (Calculated)

Blinebry perfs @ 5060' to 5758'.

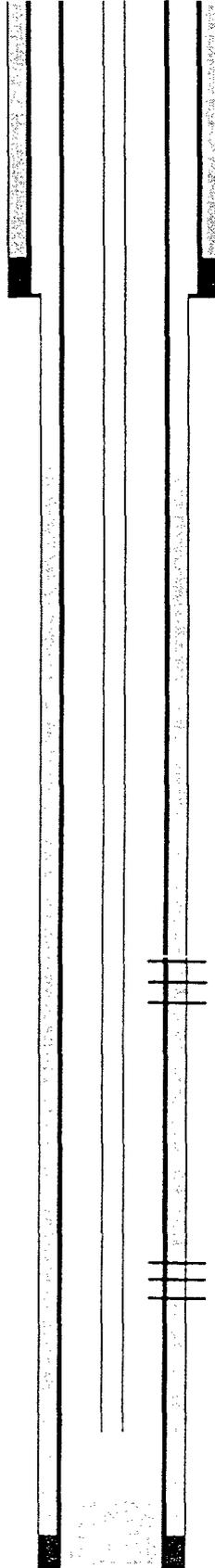
Tubb/Drinkard perfs @ 5790' to 6127'

2-3/8" tbg @ 6092'.

8-3/4" hole.  
7" csg @ 6200' w/632 sxs cmt.

PBD @ 6182'.

TD @ 6200'.



# SOUTH JUSTIS UNIT "D" #13

**WELL NAME:** SOUTH JUSTIS UNIT "D" #13  
**LOCATION:** 1650' FSL & 990' FEL (I), SEC. 11, T-25S, R-37E  
LEA COUNTY, NEW MEXICO

**FORMER OPERATOR:** MERIDIAN

**FORMER WELL NAME:** JUSTIS #2

**BLM TRACT NUMBER:** 9                      **API NUMBER:** 3002520994

**SPUD DATE:** 2/15/64

KB: 3138'                      GL: 3126'                      TD: 6200'                      PBSD: 6182'

**CASING RECORD:**

<u>Size</u>	<u>Wt</u>	<u>Grade</u>	<u>Depth</u>	<u>Cementing Record</u>
9-5/8"			958'	100 sxs cmt, circ
7"			6200'	632 sxs cmt

**LOGS:**

<u>Date</u>	<u>Company</u>	<u>Log Name</u>
3/22/64	PGAC	Sonic, MLL, LL-3

**DST's:**

**INITIAL COMPLETION:** IP Blinebry (5287-5549'), Flwd 143 BO, 9 BW, TP 805, 10/64" ck, Gravity 36°  
IP Tubb/Drinkard (5817-6127'), Flwd 156 BO, 1 BW, TP 580, 10/64" ck, Gravity 35°

**INITIAL COMPLETION DATE:** 4/28/64

**PERFORATIONS:**

<u>Date</u>	<u>Density</u>	<u>Perforations</u>
03/28/64	1 SPF	5934, 38, 41, 45, 52, 63, 78, 85, 92, 6000, 08, 19, 26, 39, 54, 66, 75, 82, 89, 6102, 18, 27
04/15/64	1 SPF	5817, 20, 24, 34, 39, 44, 47, 58, 73, 79
04/20/64	1 SPF	5287, 94, 5308, 14, 37, 40, 60, 65, 71, 99, 5417, 22, 27, 34, 44, 59, 64, 74, 81, 86, 5504, 45, 49
10/68	2 SPF	5790-5802
10/68	?	5578, 92, 5620, 49, 61, 80, 88, 5720, 40, 58

## SOUTH JUSTIS UNIT "D" #13

### PERFORATIONS (continued):

<u>Date</u>	<u>Density</u>	<u>Perforations</u>
10/68	?	5060, 80, 88, 94, 5104, 06, 13, 34, 48, 68, 89, 5201, 16, 30, 45

### TREATMENTS AND WORKOVERS:

03/28/64	5934-6127 -- acidized w/2,500 gals acid.
03/29/64	5934-6127 -- frac'd w/15,000 gals G.L.C. & 16,000# sd.
04/15/64	5817-5879 -- acidized w/2,000 gals acid.
04/16/64	5817-5879 -- frac'd w/15,000 gals G.L.C. & 16,000# sd.
04/20/64	5287-5549 -- acidized w/2,500 gals acid.
04/21/64	5287-5549 -- frac'd w/20,000 gals G.L.C. & 20,000# sd.
10/68	Perf Tubb/Drinkard 2 SOF 5790-5802' Perf L/Blinebry at 5578', 92', 5620', 49', 61', 80', 88', 5720' 40', & 58' Perf U/Blinebry at 5060', 80', 88', 94', 5104', 06', 13', 34', 48', 68', 89', 5201', 16', 30', 45' Acidize 5790-6127' w/1500 gals Frac 5790-6127' w/60,000 gals wtr & 90,000# sd Acidize 5060-5758' w/2000 gals Frac 5060'-5758' w/80,000 gals & 120,000# sd
07/93	Cleaned out 7" casing to 6182' PBD. Pressure test casing to 500# for 30 minutes (5000' to surface). Acidized perms 5060'-6127' with 3,000 gals.
09/94	Rod repair, parted box 171 from surface. Fish and change pump, load and test.
01/95	Rod repair, Pulled rods to ¾ body break, Fish and lay down 6 bad 5/8 rods and 1-3/4, Replaced pump and bad rods, load and test to 500#.
12/94	Check and cleaned pump.
10/98	Pump repair, stuck.
10/99	Pump repair, pump full of scale.
12/2000	Rod repair, replace rods due to pits.
02/2001	Pull and replace pump.

# WELLBORE SCHEMATIC

## South Justis Unit A #12

(Meridian Stuart #8)  
1650' FNL & 990' FWL (E)  
Sec. 11, T-25S, R-37E, Lea Co., NM  
KB 3131'  
Spudded 11/29/63  
Completed 12/25/63

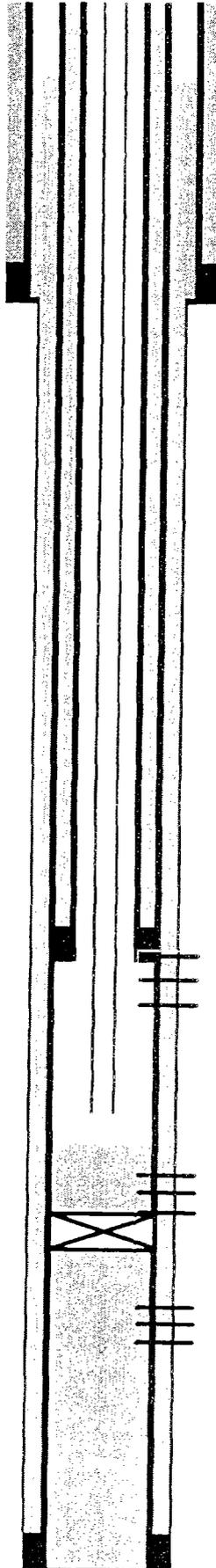
TOC @ 465' by TS.

12-1/4" hole.  
9-5/8" casing @ 1036'.  
Set w/546 sxs cmt. Circ.

4 1/2" Csg. Liner @ 5131'

2 3/8" Tbg. @ 5600'

8-3/4" hole.  
7" csg @ 6180' w/632 sxs cmt.



Blinebry perfs @ 5214' to 5645'.

PBD @ 5610'  
Perf 5610' SLM (Fill)  
Plug @ 5680

Tubb/Drinkard perfs @ 5944' to 6117'

TD @ 6180'.

## SOUTH JUSTIS UNIT "A" #12

**LOCATION:** 1650' FNL & 990' FWL (E), SEC. 11, T-25S, R-37E  
LEA COUNTY, NEW MEXICO

**FORMER OPERATOR:** MERIDIAN

**FORMER WELL NAME:** STUART #8

**BLM TRACT NUMBER:** 3                      **API NUMBER:** 3002520995

**SPUD DATE:** 11/29/63

KB: 3131'                      GL: 3118'                      TD: 6180'                      PBD: 5610'

### **CASING RECORD:**

<u>Size</u>	<u>Wt</u>	<u>Grade</u>	<u>Depth</u>	<u>Cementing Record</u>
9-5/8"	32#		1036'	546 sxs cmt, circ
7"	20-23#		6180'	632 sxs cmt, (TOC @ 465'-TS)
4 1/2"	10.50	J-55 (Csg.Liner)	5144'	Surf

### **LOGS:**

<u>Date</u>	<u>Company</u>	<u>Log Name</u>
12/26/63	PGAC	GR-Sonic, LL, MLL

### **DST's:**

1	Blinebry	5405-5530	Open 2-1/2', GTS 5", FP 48 BO in 2 hrs, SI 30", ISIP-2430, FP 633-909, 1 hr FSIP-2195
2	Tubb/Drinkard	5980-6025'	Open 1', rec 180' SGC DM, 30" ISIP-1932, FP 106-202, SI 30" FSIP-1911'
3	Tubb/Drinkard	6070-6180'	Open 1', rec 30' DF, 30" ISIP-187, FP 106-119, 30" FSIP-147

**INITIAL COMPLETION:** Blinebry (5406-5645'),  
IP Flwd 497 BOPD & 36 BW, TP 1250#, CP 650#, 3/4" choke  
Gravity 36.5° API

**INITIAL COMPLETION DATE:** 12/25/63

## SOUTH JUSTIS UNIT "A" #12

### PERFORATIONS:

<u>Date</u>	<u>Density</u>	<u>Perforations</u>
08/15/75	1 SPF	5214, 18, 24, 28, 34, 42, 46, 53, 60, 66, 76, 84, 93, 5303, 07, 12, 20, 26, 35, 40, 50, 55, 62, 70, 83
12/63	?	5406, 34, 36, 40, 54, 5517, 19, 25, 87, 5645
12/63	?	5944, 49, 56, 68, 78, 83, 93, 6023, 29, 6064, 68, 81, 86, 93, 6104, 09, 17 -- P&A in 05/06/77

### TREATMENTS AND WORKOVERS:

01/64 Perf Drinkard 6064', 68', 81', 86', 93', 6104', 09', 17'  
Acidized w/2000 gals, Frac'd w/15,000 gals oil & 16,000# sd  
Perf Tubb 5944', 49', 56', 68', 78', 83', 93', 6007', 23', 29'  
Acidized w/2000 gals, Frac'd 15,000 gals oil & 16,000# sd  
Perf Blinebry 5406', 34', 36', 40', 54', 5517', 19', 25', 87', 5645'  
Acidized (5406-5645) w/2,000 gals acid & frac'd w/20,000 gals gel wtr & 20,000# sd.

04/64 TA'd Tubb/Drinkard 5944-6117'

11/69 Found 1 jt. of bad tbg and replaced. Pumped 42 BO & 5 BW

07/71 Found 1 jt. of bad tbg, leaky pump

11/74 Treated with 2 bbls scale inhibitor & 2 drums Cl.

08/75 Acidized Blinebry w/5000 gals 15% NEA. 4.1 BPM-1600#, ISIP 0.  
Perf'd Blinebry at 5214', 18', 24', 28', 34', 42', 46', 53', 60', 66',  
76', 84', 93', 5303', 07', 12', 20', 26', 35', 40', 50', 55', 62', 70'  
& 83'. Acidized (5214-5283) w/2,500 gals acid & frac'd w/30,000 gals gel wtr &  
30,000# sd.  
4 BPM. ISIP 12 BPM - 3800#, ISIP - 325#, P 100% wtr

01/76 SI

05/77 Flowed 76 BO in 12 hrs thru csg. Set DR plug in perm. pkr. at 5680' w/20'  
cmt on top. Pump 84 BW, 6 BO. Lok Set pkr at 5390'.

9/95 GIH w/7" Baker SAP tool on 2 7/8 WS to 5175' set and test tool to 4000# OK  
GIH to 5587'. Pickle Tbg. Drop ICV Valve open at 1670# Close at 700# set tool.  
Spot acid to tool, BJ acidize all perfs f/5587'-5214' w/75 gals 15% HCL per perf.  
Fish valves POH LD WS & Tool.

12/95 Load & Test RBP to 1000#-OK. Isolate holes in 7" Csg. between 347-3504,  
establish PIR at 3 BPM 400# (Kill trk.) POH w/PKR to 3250'.  
IGH to 5191' latch & rel. RBP POH w/RBP & PKR, GIH w/7" Baker N-1 CIBP  
on 2 7/8 WS to 5182, set CIBP POH GIH w/Pkr. to 5151, set Pkr & Test CIBP  
to 1000#-OK, PUH w/Pkr to 3101, set Pkr load and test Ann. to 500#-OK,  
BJ sqz. 7" Csg f/3347-3504 w/50 Sks "c" w/3/10% FL, 75 Sks "c" w/5#/sk sand and  
100 Sks "c" w/2% CgCL2. Displace to 3323' (27 Bbls) shut well in w/450# on Tbg.  
POH w/Pkr GIH w/6 1/8 Bit, 6 - 4 1/4 DC's on 2 7/8 WS to 3320' Tag, do soft Cmt.

## SOUTH JUSTIS UNIT "A" #12

f/3320-3399', hard cmt. f/3399-3456, fell out of cmt. at 3456, GIH to 3470', Tag DO soft cmt. 3470-3540', fell out of cmt. at 3540' GIH to 3582', CHC test sqz. to 500#

### TREATMENTS AND WORKOVERS:(Cont'd)

Lost 200# in 1 Min. f/500-300# PSI, slowed down after 1 Min. to another 200# Loss f/300-100# in 10 mins. (tested several times w/same results)POH w/Bit. GIH w/7" Baker Pkr on 2 7/8 WS to 3473', test 7" Csg. f/3473-5023=1550 7" Csg. in very bad shape w/several csg. leaks appearing while testing. POH LD 2 7/8 WS and tools. Will runh 4 1/2 liner after consulting w/Midland Office and SJU Production Supervisor.

ND BOP ND 11" 3000 x 6" 900 Tbg. Hd NU 11" 3000x11" 3000 "B" section NU Adaptor spool and BOP GIH w/4 1/2 10.5# J-55 8rd LT&C Csg. to 5182', Tag CIBP PU 4 1/2 liner to 5144', ND BOP and Spool set slips in "B" section w/46000# NU BOP & spool BJ Cmt. 4 1/2 csg. w/465 Sks "C" w/3/10% FR Pumping reverse. JC at 1630 hrs. 12/15/95, SI 4 1/2 Csg. w/500# standing PSI.

- 03/97 Pin Break on Polish Rod. Fish and change out pump. Add 2 1 1/2" K bars re-space, tested load.
- 11/97 Pump repair, ball & seat leaking.
- 12/98 Rod repair, box break. Replace all rod boxes and 77 joints of tubing due to wear & pits. Acid/soap wash to remove scales, 55 gals.

# WELLBORE SCHEMATIC

## South Justis Unit D #12

(ARCO Langlie B (JH) #2)

2310' FNL & 990' FEL (H)

Sec. 11, T-25S, R-37E, Lea Co., NM

API 30-025-21058

KB 3144'

Spudded 06/07/64

Completed 07/24/64

11" hole.  
8-5/8" casing @ 920'.  
Set w/300 sxs cmt. Circ.

TOC @ 1700' (Measured)

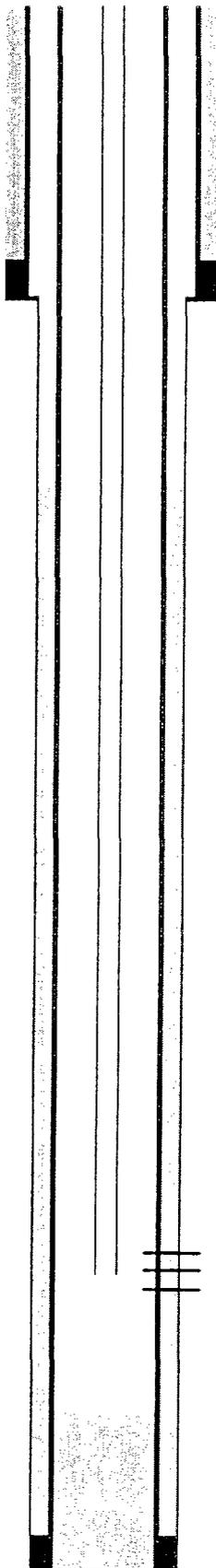
2-3/8" tubing @ 6141'.

Blinbry-Tubb/Drinkard  
Perfs @ 5059' to 6146'.

PBD @ 6165'.

7-7/8" hole.  
5-1/2" csg @ 6175' w/825 sxs cmt.

TD @ 6175'.



## SOUTH JUSTIS UNIT "D" #12

**WELL NAME:** SOUTH JUSTIS UNIT "D" #12

**LOCATION:** 2310' FNL & 990' FEL (H), SEC. 11, T-25S, R-37E  
LEA COUNTY, NEW MEXICO

**FORMER OPERATOR:** JOHN HENDRIX/ARCO

**FORMER WELL NAME:** LANGLIE "B" (JH) #2

**BLM TRACT NUMBER:** 30                      **API NUMBER:** 3002521058

**SPUD DATE:** 6/7/64

KB: 3144'                      GL:                      TD: 6175'                      PBSD: 6165'

### **CASING RECORD:**

<u>Size</u>	<u>Wt</u>	<u>Grade</u>	<u>Depth</u>	<u>Cementing Record</u>
8-5/8"			920'	300 sxs cmt, circ
5-1/2"			6175'	825 sxs cmt, (TOC @ 1700')

### **LOGS:**

<u>Date</u>	<u>Company</u>	<u>Log Name</u>
6/26/64	Schlumberger	Sonic, L, MLL, MOP

### **DSTs:**

**INITIAL COMPLETION:** IP Blinebry (5249-5698'), Flwd 55 BO, TP 1100#, 8/64" choke, Gravity 38°  
Tubb/Drinkard (5834-6146'), Flwd 80 BO, TP 950#, 10/64" choke, Gravity 39°

**INITIAL COMPLETION DATE:** 7/24/64

### **TREATMENTS AND WORKOVERS**

Drinkard Perfs: 6019', 29', 40', 48', 55', 66', 86', 97', 6103', 11', 22', 30', 46'  
Acidized w/250 gals, Frac'd 20,000 gals oil, 20,000#  
Re-acidized w/1000, Re-frac'd w/14,000 gals oil & 14,000# sd

Tubb Perfs: 5834', 45', 77', 84', 5904', 20', 35', 65', 76', 88'  
Acidized w/1750 gals, frac'd w/20,000 gals oil, 10,000# sd

Blinebry Perfs 5249', 5354', 64', 5423', 32', 5505', 5520', 27', 52', 72', 5605',  
11', 37', 88', 98'. Acidized w/3000 gals, frac'd w/30,000 gals oil &  
31,655# sd.

4-15-70 Added Blinebry perfs at 5059', 63', 70', 83', 5102', 08', 15', 19',  
23', 29', 37', 47', 54', 58', 63', 79', Frac'd w/80,000 gals BW &  
120,000# sd

## SOUTH JUSTIS UNIT "D" #12

- 12-93 Cleaned out 5 1/2" casing to 6165' PBD. Pressure tested casing to 500# (5015'-surface).  
Added Blinebry-Tubb/Drinkard perms 5195'-5912' (27' @ 1 JSPF = 27 perms): 5195', 5215', 5221', 5232', 5263', 5281', 5386', 5465', 5536', 5592', 5599', 5660', 5670', 5675', 5704', 5718', 5725', 5739', 5759', 5766', 5774', 5800', 5867', 5888', 5900', 5909', and 5912'.  
Acidized Blinebry-Tubb/Drinkard perms 5059'-6146' w/8,000 gals 15% HCL.
- 09/94 Rod repair, Pulled rods to 3/4 body break 186 from surface. Fish and change pump.
- 10/94 Rod repair, Pulled rods to 3/4 body break 120 from surface. Fish and replace rods, load and test.
- 12/94 Check and cleaned pump.
- 03/95 Rod repair, Pulled rods to 3/4 body break 120 from surface. Fish and replace rods, load and test to 500#.
- 05/95 Rod repair, Pulled rods to 3/4 body break 191 from surface. Fish and lay down rods, replaced rods with used class "D" string, load and test.
- 05/96 Hole in tubing 34 jts from bottom, changed out 17 joints and 10 collars. Changed out seat nipple, perf, sub, and mud joint, tested tubing.
- 07/96 Change out polish rod and liner.
- 02/98 Slow unit down from 8.5 spm to 5.6 spm.
- 02/99 Pump repair, pump full of scale. Downgraded pump to 1.25". Increase unit by 3.4 spm to 9.0 spm.
- 11/99 Pump repair, pump full of paraffin and scale. Hot watered tubing prior to pulling pump. Pumped 500 gals Toluene down casing.
- 12/99 Pull pump, scanalog tubing. Replaced 16 red due to pits on bottom of string.

# WELLBORE SCHEMATIC

## South Justis Unit B #13

(Meridian Olsen Stuart #2)

2160' FSL & 2310' FWL (K)

Sec. 11, T-25S, R-37E, Lea Co., NM

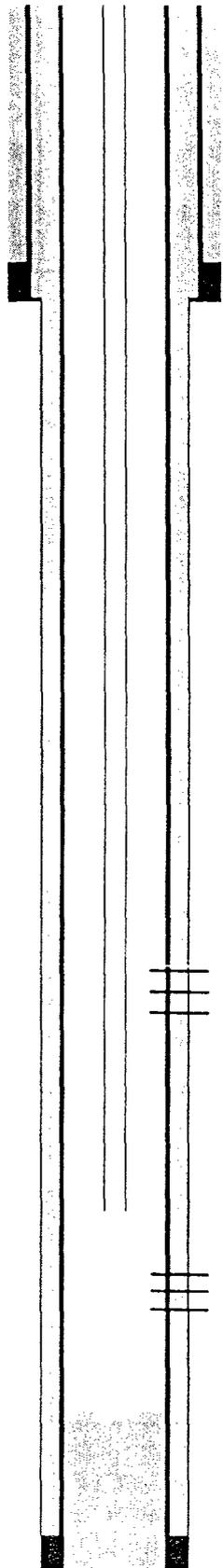
API 30-025-21078

KB 3128'

Spudded 10/09/64

Completed 01/28/65

12-1/4" hole.  
9-5/8" casing @ 954'.  
Set w/300 sxs cmt. Circ.



Blinebry perfs @ 5144' to 5613'.

2-3/8" tubing @ 6084'.

Tubb/Drinkard perfs @ 5873' to 6117'

PBD @ 6128'

TD @ 6200'.

8-3/4" hole.  
7" csg @ 6200' w/460 sxs cmt. Circ.

## SOUTH JUSTIS UNIT "B" #13

**WELL NAME:** SOUTH JUSTIS UNIT "B" #13

**LOCATION:** 2160' FSL & 2310' FWL (K), SEC. 11, T-25S, R-37E  
LEA COUNTY, NEW MEXICO

**FORMER OPERATOR:** MERIDIAN

**FORMER WELL NAME:** OLSEN STUART #2

**BLM TRACT NUMBER:** 37                   **API NUMBER:** 3002521078

**SPUD DATE:** 10/9/64

KB: 3128'                   GL: 3117'                   TD: 6200'                   PBSD: 6128'

### **CASING RECORD:**

<u>Size</u>	<u>Wt</u>	<u>Grade</u>	<u>Depth</u>	<u>Cementing Record</u>
9-5/8"	32.3#		954'	300 sxs cmt, circ
7"	26#		6200'	460 sxs cmt, circ

### **LOGS:**

<u>Date</u>	<u>Company</u>	<u>Log Name</u>
1/7/65	Western	GR
11-4-64	Schlumberger	Sonic

### **DST's:**

1	3102-95	Cored 3090-3195' Open 1' 30", Rec 300' GCM, FP 132-241 30" FSIP 241#.
2	3192-3251'	Cored 3210-51', 4850-5036' Open 1', GTS -59" TSTM, Rec 95' GCM, FP 42-74, 30" FSIP 149#
3	4855-4904'	Open 1', Rec 350' O&GCM, FP 87-131, 30"-FSIP 285
4	4900-93'	Open 1', rec 420' GCM, FP 109-175, 35" FSIP-285
5	4990-5068'	Op 1', rec 600' GCM, FP 285-438, 30" FSIP 723#

**INITIAL COMPLETION:** IP Blinebry (5195-5613'), P 99 BO, 110 BW, Gravity 36°  
Tubb/Drinkard (5873-6117') P 60 BO, 1 BW, Gravity 36.9°

## SOUTH JUSTIS UNIT "B" #13

INITIAL COMPLETION DATE: 1/28/65

### PERFORATIONS:

<u>Date</u>	<u>Density</u>	<u>Perforations</u>
01/65	?	5989, 6038, 44, 68, 81, 92, 6112, 17
01/65	?	5873, 84, 95, 5909, 12, 22, 41, 55, 58
01/65	?	5195, 5225, 47, 56, 5347, 53, 61, 5403, 14, 5438, 55, 78, 5501, 12, 20, 32, 40, 65, 78, 84, 93, 5613
02/02/79	1 shot/2 ft	5144-5164, 5170-5178, 5208-5244, 5254-5284

### TREATMENTS AND WORKOVERS:

01/65 Perf'd Drinkard at 5989', 6038', 6044', 68', 81', 92', 6112', 6117'  
Perf'd Tubb at 5873', 84', 95', 5909', 12', 22', 41', 55', 58  
Acidized (5873-6117') w/3,500 gals acid & frac'd w/30,000 gals oil & 30,000# sd.  
Perf'd Blinebry at 5195', 5225', 47', 56', 5347', 53', 61', 5403', 14',  
38', 55', 78', 5501', 12', 20', 32', 40', 65', 78', 84', 93', 5613'  
Acidized (5195-5613) w/7,000 gals acid & frac'd w/30,000 gals gel acid & 30,000# sd.

12/68 Replaced tbg couplings

03/71 Dumped 200 gals acid down tbg

11/71 5873-6117 -- acidized Tubb w/1,500 gals 15% NEA & Blinebry (5195-5613) w/2000 gals 15% NEA.  
Blinebry, pumped 8 BO, 21 BW in 16 hrs; Tubb, pumped 4 BO, 4 BW in 6 hrs.

06/14/72 Commingled Blinebry and Tubb/Drinkard. Pumped 30 BO & 48 BW

01/79 Perf'd Blinebry w/1 shot per 2' 5144-64'. Acidized 5144-5164 w/4,000 gals and frac'd w/30,000 gals X-lined BW & 42,000# sd. POH w/BP.  
Pumped 19 BO, 108 BW, 13 MCF.

03/93 Clean out 7" casing to 6128' PBD. Pressure test casing to 500# (5081' to surface).

11/93 Rod repair, ran new 3/4 " rods, load & tested to 500#.

11/94 Pump repair, ran new pump, load & tested to 1000#.

03/95 Replace 35 jts of pitted tubing.

# WELLBORE SCHEMATIC

## South Justis Unit D #11

(ARCO Jal #3)

990' FNL & 990' FEL (A)

Sec. 11, T-25S, R-37E, Lea Co., NM

API 30-025-21188-00

KB 3141'

Spudded 01/29/65

Completed 03/28/65

13-3/4" hole.  
9-5/8" casing @ 975'.  
Set w/675 sxs cmt. Circ.

TOC @ 2100' by TS.

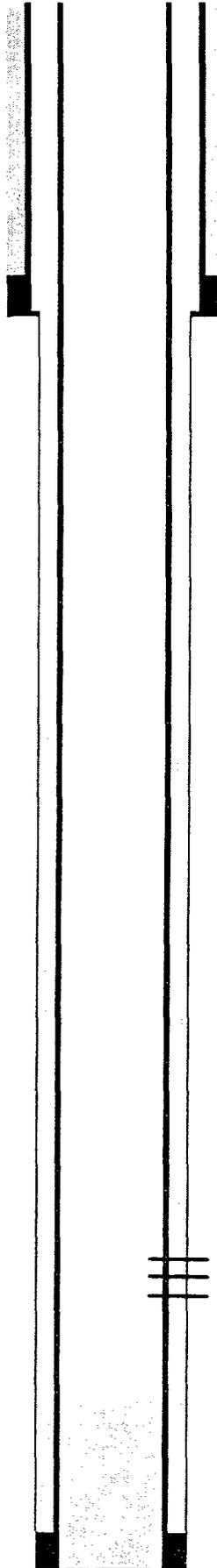
2 3/8" Tbg @ 6111'

Blinebry/Tubb/Drinkard perfs @  
5085'-6145'

8-3/4" hole.  
7" casing @ 6250' w/819 sxs cmt.

PBD @ 6211'

TD @ 6256'.



# SOUTH JUSTIS UNIT "D" #11

**LOCATION:** 990' FNL & 990' FEL (A), SEC. 11, T-25S, R-37E  
LEA COUNTY, NEW MEXICO

**FORMER OPERATOR:** ARCO OIL AND GAS COMPANY

**FORMER WELL NAME:** JAL #3

**BLM TRACT NUMBER:** 11                      **API NUMBER:** 3002521188

**SPUD DATE:** 1/29/65

KB: 3141'                      GL:                      TD: 6256'                      PBSD: 6145'

**CASING RECORD:**

<u>Size</u>	<u>Wt</u>	<u>Grade</u>	<u>Depth</u>	<u>Cementing Record</u>
9-5/8"	32-36#		975'	675 sxs cmt, circ
7"			6250'	819 sxs cmt, (TOC @ 2100' - TS)

**LOGS:**

<u>Date</u>	<u>Company</u>	<u>Log Name</u>
2-22-65	Schlumberger	Sonic Log

**DST's:**

**INITIAL COMPLETION:** Tubb/Drinkard (5968-6145') OPT 189 BOPD, GOR 100  
Blinebry (5232-5249') OPT 552 BOPD, GOR 200

**INITIAL COMPLETION DATE:** 3/28/65

**PERFORATIONS:**

<u>Date</u>	<u>Density</u>	<u>Perforations</u>
03/01/65	1 JSPF	5968, 6047, 91, 95, 6104, 23, 28, 39, 45
03/03/65	2 JSPF	5232-49 -- sqzd w/300 sxs cmt on 03/10/65
03/12/65	2 JSPF	5239-5248
04/09/76	1 JSPF	5772, 78, 87, 93, 5811, 27, 36, 42, 47, 52, 57, 62, 70, 5882, 91, 99, 5904, 12, 24, 30, 47, 52, 63, 73, 80, 86, 6005, 16, 27, 33, 70, 76, 84, 6116 (total 34 holes)

## SOUTH JUSTIS UNIT "D" #11

### PERFORATIONS (continued):

<u>Date</u>	<u>Density</u>	<u>Perforations</u>
04/09/76	1 JSPF	5085, 93, 5101, 11, 18, 29, 35, 41, 50, 56, 61, 66, 77, 80, 88, 98, 5209, 19 (total 18 holes)
08/17/95	1 SPI	5331, 352, 364, 374, 5411, 449, 480, 488, 5511, 528, 536, 553, 575, 5617, 643, 658, 687, 5703, 5739'

### TREATMENTS AND WORKOVERS:

03/65	Perf Tubb/Drinkard 5968', 6047', 91', 95', 6104', 23', 28', 39', 45' Acidized w/1000 gals 15% HCL LSTNEA & frac'd w/15,000 gals G.L.C. & 15,000# sd. OPT 189 BOPD, GOR 100
03/65	Perf Blinebry 5232'-49' 2 spf. Acidized w/500 gals mud acid & 500 gals 15% LSTNEA & frac'd w/20,000 gals G.L.C. & 24,000# sd. Squeeze 5232-49'/268 sx to shut off gas. Perf 5239-48', 2 spf Acidized w/500 gals mud acid & 2,000 gals 15% HCL LSTNEA. OPT 552 BOPD, GOR 200.
05/65	5239-5248 -- acidized w/5,000 gals 15% LSTNEA - 65 BOPD, 12 BW.
07/73	Installed pumping equipment 7 BO, 1 BWPD
04/76	Perf Tubb/Drinkard 5772', 78', 87', 93', 5811', 27', 36', 42', 47', 52', 57', 62', 70', 82', 91', 99', 5904', 12', 24', 30', 47', 52', 63', 73', 80', 86', 6005', 16', 27', 33', 70', 76', 84', 6116'. Perf Blinebry 5085', 93', 5101', 11', 18', 29', 35', 41', 50', 56', 61' 66', 77', 80', 88', 98', 5209', 19'. 133 BOPD/249 BW, Tubb/Drinkard - 51 BOPD/50 BW (Dual)
04/12/76	5772-6145 -- acidized w/2,500 gals 15% HCL LSTNEA & frac'd w/36,200 gals X-Link Gel 2% HCL wtr & 46,500# sd.
04/15/76	5085-5248 -- acidized w/1,500 gals 15% HCL LSTNEA.
04/19/76	5085-5248 -- frac'd w/46,746 gals GBW & 78,887# sd.
02/80	Downhole commingled
8/95	FIH w/SAP tool to 5748', set and test tool to 4000#, OK, Pickle tbg., drop ICV Valve, open at 1300, close at 800#, move tool to 5739'. Spot acid to tool. BJ acidize perfs f/5331-5739 w/75 gals 15% HCL per perf., fish valve BJ acidize all perfs f/5085-6145 w/1000 gals 15% HCL. Flush to 6145'. Max. PSI-1200 Min PSI 1000, Air 7 1/2 BPM, ISIP-Vac. SI 1 hr., RU XL pump truck and pump 50 Bbls 2% KCL w/110 gals acid, 3 drums baker SI 4003 chem. & 5 Sks, CoCl <sub>2</sub> , flush w/150 Bbls, 2% KCL.
07/2000	Hot watered rods prior to pulling due to paraffin. Repair pump due to wear.

# WELLBORE SCHEMATIC

## South Justis Unit B #140

(VF/ARCO J. A. Stuart (VF) #1)  
990' FSL & 2310' FWL (N)  
Sec. 11, T-25S, R-37E, Lea Co., NM  
API 30-025-21328  
KB 3132'  
Spudded 03/08/65  
Completed 04/14/65

12-1/4" hole.  
8-5/8" casing @ 984'.  
Set w/600 sxs cmt. Circ.

TOC @ 2095' (Measured)

2-3/8" tubing @ 5129'.

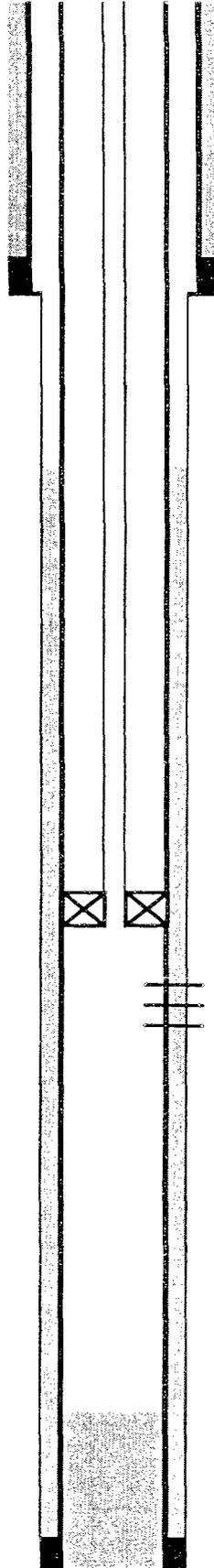
PACKER @ 5129'

Blinbry-Tubb/Drinkard  
Perfs @ 5150' to 6109'.

7-7/8" hole.  
5-1/2" csg @ 6227' w/525 sxs cmt.

PD @ 6178'

TD @ 6240'.



**SOUTH JUSTIS UNIT "B" #140**

**WELL NAME:** SOUTH JUSTIS UNIT "B" #140

**LOCATION:** 990' FSL & 2310' FWL (N), SEC. 11, T-25S, R-37E  
LEA COUNTY, NEW MEXICO

**FORMER OPERATOR:** VF/ARCO OIL AND GAS COMPANY

**FORMER WELL NAME:** J. A. STUART (VF) #1

**BLM TRACT NUMBER:** 38                      **API NUMBER:** 3002521328

**SPUD DATE:** 3/8/65

KB: 3133'                      GL: 3121'                      TD: 6240'                      PBSD: 6178'

**CASING RECORD:**

<u>Size</u>	<u>Wt</u>	<u>Grade</u>	<u>Depth</u>	<u>Cementing Record</u>
8-5/8"			984'	600 sxs cmt, circ
5-1/2"			6227'	525 sxs cmt, (TOC @ 2095'-TS)

**LOGS:**

<u>Date</u>	<u>Company</u>	<u>Log Name</u>
4/6/65	Schlumberger	Sonic, LL, MLL, MOP

**DST's:**

**INITIAL COMPLETION:** IP Blinebry (5174-5499'), Flwd 218 BO, 170 MCF, TP 500#  
on 15/64" choke  
Tubb/Drinkard (5896-6109'), Flwd 179 BO, 9 BW, TP 175#  
GOR 670 on 1/2" choke

**INITIAL COMPLETION DATE:** 4/14/65

**TREATMENTS AND WORKOVERS**

Blinebry Perfs: 5174', 89', 5238', 67', 5434', 54', 99'  
Acidized w/2000 gals, flwd w/20,000 gals oil & 20,000# sd

## SOUTH JUSTIS UNIT "B" #140

Tubb/Drinkard Perfs: 5896', 5939', 68', 90', 6016', 53', 78', 6103', 09'  
Acidized w/2000 gals, flwd w/15,000 gals & 15,000# sd

2-21-68 Set CIBP @ 5550'  
Model FA pkr @ 5600'

8-76 Re-perf Blinebry at 5174', 89', 5283', 5367', 5434',  
5454', 5499'.  
Additional Blinebry perfs at 5182', 86', 5201', 07', 53'  
66', 74', 82', 89', 5300', 07', 25', 35', 49', 59', 66',  
76', 99', 5436', 73', 80', 5503', 17'  
Frac'd w/45,000 gals GBW, 51,000# 20/40 15,000#  
100 mesh

12-93 Pressure tested 7" casing from 5010'-surface to 500# for 30 minutes.  
Perf'd Blinebry-Tubb/Drinkard f/5150'-5973' (47' @ 2 SPF = 94 perfs).  
5150, 55, 89, 98, 5216, 25, 42, 63, 94, 5317, 35, 87, 93, 5426, 67, 5542, 48,  
80, 86, 5601, 13, 25, 38, 44, 56, 60, 71, 76, 92, 5707, 14, 28, 34, 41, 52, 58,  
62, 89, 98, 5810, 21, 29, 37, 54, 5948, 56, 73.  
Acidized Blinebry-Tubb/Drinkard perfs 5150'-6103' w/15,000 gals acid.  
Set injection tubing and packers @ 5072'. Ran casing integrity test to  
500# for 30 minutes.

06-94 Removed inj. packer and tubing. Ran 2-3/8" tubing to 6073'.

05/04/95 Converted to Injection Well.

11/99 Packer repair, pressure test tubing in hole, set packer @ 5121'. Circulate fluid,  
ran MIT.

# South Justis Unit No. "C" #130

## Current Wellbore Diagram

**Location:**  
2500 FSL, 1650 FEL (J)  
Section: 11  
Range 37E  
Township 25S  
County: Lea Co., NM

**Elevations:**  
GL: 3135'  
DF: 3151'

**Gen. Well Info:**  
Compleat. Date: 07/24/1995  
Status: Active WIW  
API# : 30-025-32316

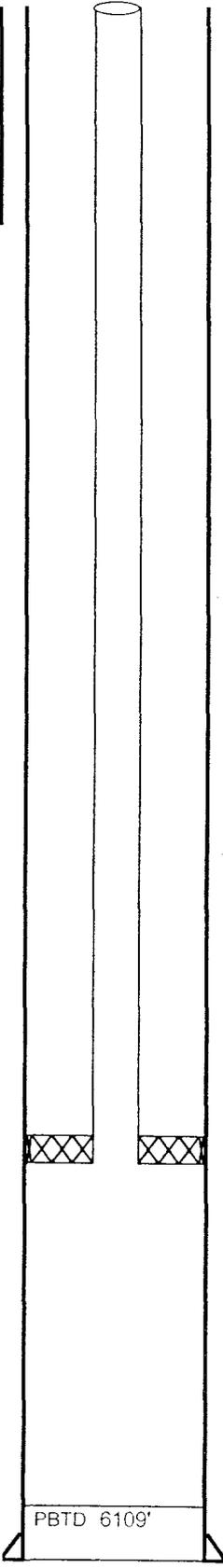
**Casing Size:** 8-5/8"  
**Setting Depth:** 1065'  
**Hole Size:** 12-1/4"  
**Cement :** 500 sx  
**Cement Top:** Surface

### Tubing Detail

2-3/8" @ 5119'

### Rod Detail

Perforations:  
Blinebry - Tubb Drinkard  
5158' - 6085'



Packer set @ 5116'

PBTD 6109'

Well TD: 6150'

**Casing Size:** 4-1/2"  
**Setting Depth:** 6150'  
**Hole Size:** 7-7/8"  
**Cement :** 1700 sx  
**Cement Top:** 1350'



## SOUTH JUSTIS UNIT "C" 130

Completed as an Injection Well.

10//99            POH w/ tubing & packer, RIH w/ bit & scrapper to 5650'. Set CIBP @ 5622'. Set packer @ 5116'.



# South Justis Unit No. "C" #140

## Current Wellbore Diagram

**Location:**  
1200 FSL, 1450 FEL (O)  
Section: 11  
Range 37E  
Township 25S  
County: Lea Co., NM

**Elevations:**  
GL: 3135'  
DF: 3149'

**Gen. Well Info:**  
Compleat. Date: 06/12/1995  
Status: Active WIW  
API# : 30-025-32317

**Casing Size:** 8-5/8"  
**Setting Depth:** 1065'  
**Hole Size:** 12-1/4"  
**Cement :** 500 sx  
**Cement Top:** Surface

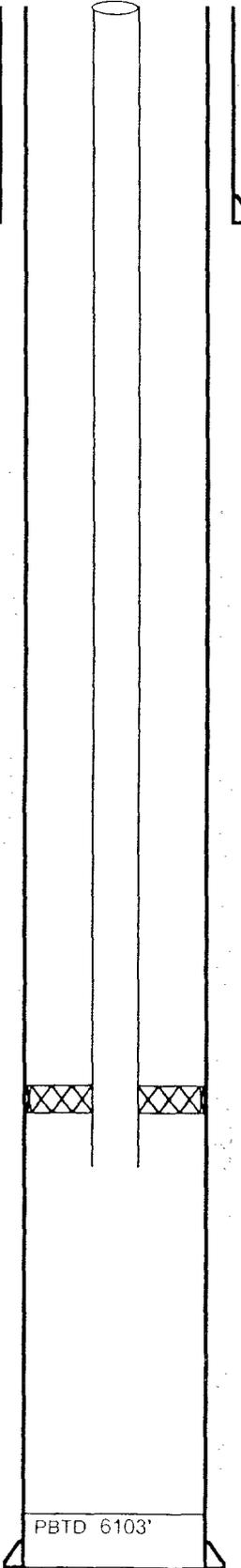
### Tubing Detail

2-3/8" @ 5112'

### Rod Detail

Set Packer @ 5048'

Perforations:  
Blinebry - Tubb Drinkard  
5090' - 6067'



The diagram shows a vertical wellbore. At the top, there are two vertical lines representing casing. Below the casing, there is a section of tubing. A packer is shown as a cross-hatched area at 5048' depth. Below the packer, there are two perforation zones, each represented by a cross-hatched area. The lower perforation zone is labeled 'Blinebry - Tubb Drinkard' and '5090' - 6067''. At the bottom of the wellbore, there is a section labeled 'PBTD 6103''.

PBTD 6103'

Well TD: 6150'

**Casing Size:** 4-1/2"  
**Setting Depth:** 6150'  
**Hole Size:** 7-7/8"  
**Cement :** 1700 sx  
**Cement Top:** 1750'

## SOUTH JUSTIS UNIT "C" 140

**LOCATION:** 1200' FSL & 1450' FEL (O), 11-25S-37E  
LEA COUNTY, NEW MEXICO

**OPERATOR:** ARCO PERMIAN

**BLM TRACT NUMBER:** 05      **API NUMBER:** 30-025-32317

**SPUD DATE:** 05/24/95

KB: 3149'      GL: 3135'      TD: 6150'      PBTD: 6103'

### **CASING RECORD:**

<u>Size</u>	<u>Wt</u>	<u>Grade</u>	<u>Depth</u>	<u>Cementing Record</u>
8-5/8"	24#	J-55	1065'	500 SX C CIRC CMT
4-1/2"	10.5#	J-55	6150'	1700 SX C TOC 1750

### **LOGS:**

<u>Date</u>	<u>Company</u>	<u>Log Name</u>
06/05/95	WEDGE	GR/CPNL/CCL

### **INITIAL COMPLETION:**

**Date:** 06/12/95  
**Zone:** Blinebry-Tubb-Drinkard  
**Perforations:** 5171' - 6067'(59' @ 2SPF = 118 perfs)  
**Stimulations:** 5171' - 5387' Acidize w/2400 gals  
5443' - 5748' Acidize w/3200 gals  
5811' - 6067' Acidize w/3100 gals

### **PERFORATIONS:**

6/05/95      2 SPF      5171, 179, 191, 5201, 214, 221, 229, 256, 275, 5309, 315,  
329, 349, 359, 373, 387, 5443, 471, 485, 5533, 554, 563, 579,  
598, 5609, 616, 625, 647, 663, 667, 679, 684, 693, 5712, 721,  
735, 741, 748, 5811, 820, 833, 861, 865, 881, 889, 5916, 927,  
931, 937, 944, 967, 979, 993, 6010, 014, 025, 036, 052, 067

### **Initial Potentials:**

COMPLETED AS AN INJECTION WELL.

### **TREATMENTS AND WORKOVERS**

## SOUTH JUSTIS UNIT "C" 140

### TREATMENTS AND WORKOVERS

01/2000      POH w/ tubing and packer. Set CIBP @ 5100', ran cmt bond log. Perf @ 1720', pumped 450 sxs cmt. Drilled cmt and retainer @ 1641' – 1652', Ran cmt bond log, drilled out CIBP. Add Perfs 5090' – 5140', 11 shots. Acidized w/ 2000 gals 15% NEFE. Set packer @ 5048'



South Justis Unit No. "C" #120

Current  
Wellbore Diagram

**Location:**  
1500 FNL, 1550 FEL (G)  
Section: 11  
Range 37E  
Twnshp 25S  
County: Lea Co., NM

**Elevations:**  
GL: 3130'  
DF: 3144'

**Gen. Well Info:**  
Comple. Date: 05/31/1995  
Status: Active WIW  
API# : 30-025-32318

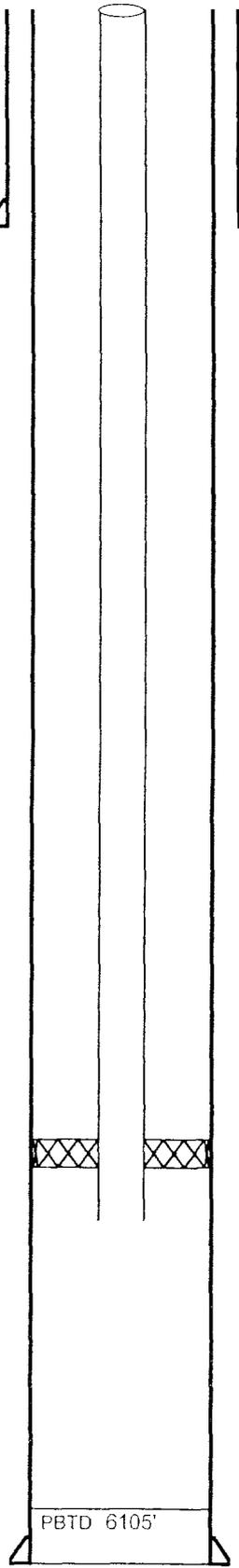
**Casing Size:** 8-5/8"  
**Setting Depth:** 1100'  
**Hole Size:** 12-1/4"  
**Cement :** 525 sx  
**Cement Top:** Surface

Tubing Detail

2-3/8" @ 5134'

Rod Detail

Perforations:  
Blinebry - Tubb Drinkard  
5065' - 6094'



Packer set @ approx. 5000'

PBTD 6105'

Well TD: 6150'

**Casing Size:** 4-1/2"  
**Setting Depth:** 6150"  
**Hole Size:** 7-7/8"  
**Cement :** 1700 sx  
**Cement Top:** 1250'

## SOUTH JUSTIS UNIT "C" 120

LOCATION: 1500' FNL & 1550' FEL (G, 11-25S-37E)  
LEA COUNTY, NEW MEXICO

OPERATOR: ARCO PERMIAN

BLM TRACT NUMBER: 30      API NUMBER: 30-025-32318

SPUD DATE: 06/04/95

KB: 3144'      GL: 3130'      TD: 6150'      PBTD: 6105'

### CASING RECORD:

<u>Size</u>	<u>Wt</u>	<u>Grade</u>	<u>Depth</u>	<u>Cementing Record</u>
8-5/8"	24#	J-55	1100'	525 SX C CIRC CMT
4-1/2"	10.5#	J-55	6150'	1700 SX C TOC 1250

### LOGS:

<u>Date</u>	<u>Company</u>	<u>Log Name</u>
05/23/95	WESTERN	DLL/MLL/GR SL ZDL/CN/GR/C

### INITIAL COMPLETION:

Date: 05/31/95  
Zone: Blinebry-Tubb-Drinkard  
Perforations: 5185' - 6094'(46' @ 2SPF = 92 perfs)  
Stimulations: 5185' - 5461' Acidize w/2,300 gals  
5515' - 5779' Acidize w/1500 gals  
5840' - 6094' Acidize w/3200 gals

Initial Potentials:  
COMPLETED AS INJECTION WELL.

### TREATMENTS AND WORKOVERS

10/15/99      POH w/ tubing and packer, RIH w/ bit & scrapper to 5315'. Perf form 5061' to 5174' w/ 18 shots. Acidize perfs w/ 2000 gals o 15% NEFE. Set packer @ approx 5000'.

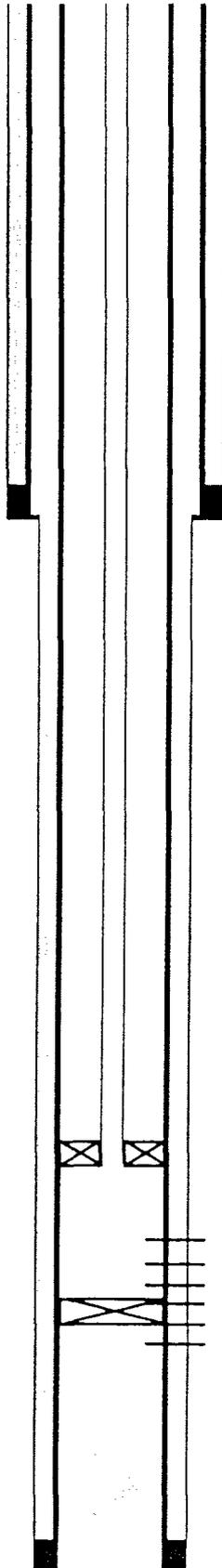


WELLBORE SCHEMATIC

South Justis Unit "B" # 110

900' FNL & 1650' FWL (C)  
SEC 11, T-25S, R-37E, LEA CO., NM  
API 30-025 -32321  
KB RKB - 14'  
SPUDDED 3/15/95  
COMPLETED 04\03/95

12-1/4" Hole.  
8-5/8" casing @ 1065'.  
Set w/550 sxs cmt. Circ.



2-3/8" tubing @ 4945'

Set Packer @ 4945'

Blinbry-Tubb/Drinkard  
Perfs @ 5143'-6068'  
CIBP @ 5418'  
Perfs @ 5143'-6068'

PBD @ 6150'.

7-7/8" hole  
4-1/2" csg @ 6150' w/1700 sxs cmt

TD @ 6150'

# SOUTH JUSTIS UNIT "B"110

LOCATION: 900' FnL & 1650' FwL (c, 11-25S-37E)  
LEA COUNTY, NEW MEXICO

OPERATOR: ARCO PERMIAN

BLM TRACT NUMBER: API NUMBER: 30-025-32321

SPUD DATE: 03/15/95

KB: GL: TD: 6150' PBTD: 6150'

## CASING RECORD:

<u>Size</u>	<u>Wt</u>	<u>Grade</u>	<u>Depth</u>	<u>Cementing Record</u>
8-5/8"	24#	J-55	1065'	550 SX C CIRC CMT
4-1/2"	10.5#	J-55	6150'	1700 TS

## LOGS:

<u>Date</u>	<u>Company</u>	<u>Log Name</u>
03/26/95	Western Atlas	GR/DLL/MLL GR/SL/CNL/ZDL

## INITIAL COMPLETION:

Date: 04/03/95  
Zone: Blinebry-Tubb-Drinkard  
Perforations: 5143'-6068' (2 SPI 100 HOLES)  
Stimulations: 5774-6068 W/3500 GALS 15% HCL  
5440-5717 W/2100 GALS 15% HCL  
5143-5386 W/2400 GALS 15% HCL  
5114-5124 W/1000 GALS 15% HCL  
5143-5153 W/1000 GALS 15% HCL  
5082-5092 W/1050 GALS 15% HCL  
5002-5089 W/50 GALS 15% HCL/FT

Initial Potentials:

## PERFORATIONS:

03\95 2 SPI 5143, 159, 186, 5205, 212, 216, 225, 235, 239, 256, 269,  
5337, 349, 372, 375, 386, 5440, 469, 480, 5513, 521, 562,  
580, 594, 5600, 637, 661, 676, 5715, 717, 774, 779, 5845,  
896, 5929, 947, 973, 980, 991, 998, 6001, 012, 024, 028, 033,  
036, 046, 051, 065, 6068

## SOUTH JUSTIS UNIT "B"110

### PERFORATIONS: CONT.

04/2/95            2 SPI                            5002, 007, 012, 013, 020, 023, 029, 030, 032, 033, 038,  
040, 041, 048, 052, 054, 066, 067, 072, 075, 089

### TREATMENTS AND WORKOVERS

Completed as an Injection Well.

04/01/97    Set CIBP @ 5418' and add perforations 5002'-5089'. RIH W/PPI tool and acidize perms 5114'-24' w/1000 gals 15% NEFE HCL, move PPI tool to 5143'-53' and acidize perms w/1000 gals 15% NEFE HCL, move PPI tool to 5082'-92' and acidize perms w/1050 gals 15% NEFE HCL. Acidized perms 5002'-89' w/50 gals 15% NEFE HCL per foot. Return to injection.

01/20/2000    Pressure tested to 500#, held for 30 minutes, held O.K. Pressure test conducted in accordance with NMOCD Division order No. R-9747 to reinstate authority to inject. TD: @ 6150', PBD @ 5420', Injection Interval @ 5002' - 5386'.



# South Justis Unit No. "C" #131

## Current Wellbore Diagram

**Location:**  
1655 FSL, 2200 FEL (J)  
Section: 11  
Range 37E  
Township 25S  
County: Lea Co., NM

**Elevations:**  
GL: 3132'  
DF:

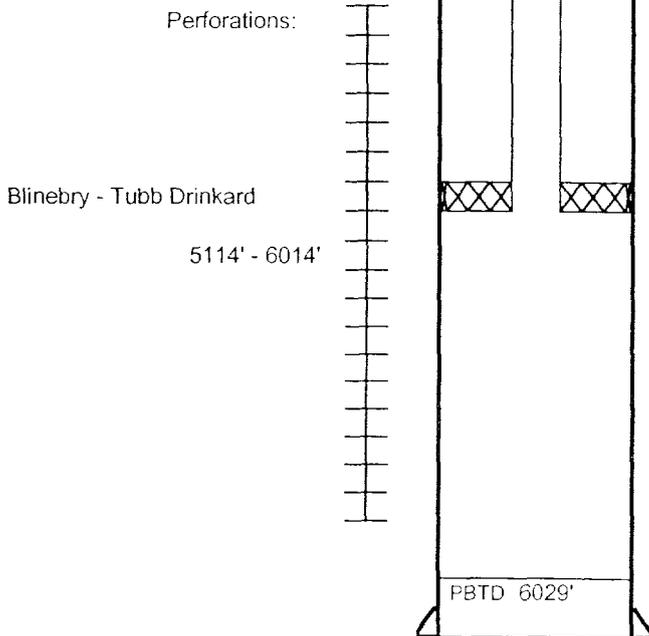
**Gen. Well Info:**  
Compleat. Date: 03/25/1995  
Status: Active  
API# : 30-025-32322

**Casing Size:** 8-5/8"  
**Setting Depth:** 1055'  
**Hole Size:** 12-1/4"  
**Cement :** 550 sx  
**Cement Top:** Surface

### Tubing Detail

2-3/8" @ 5870'

### Rod Detail



Well TD: 6100'

**Casing Size:** 5-1/2"  
**Setting Depth:** 6100'  
**Hole Size:** 7-7/8"  
**Cement :** 1700 sx  
**Cement Top:** 1575'

# SOUTH JUSTIS UNIT "C" 131

LOCATION: 1655 FsL & 2200 FeL (j,11-25S-37E)  
LEA COUNTY, NEW MEXICO

OPERATOR: ARCO PERMIAN

BML TRACT NUMBER: API NUMBER: 30-025-32322

SPUD DATE: 03/03/95

KB: GL: TD: 6100' PBSD: 6029'

## CASING RECORD:

<u>Size</u>	<u>Wt</u>	<u>Grade</u>	<u>Depth</u>	<u>Cementing Record</u>
8-5/8"	24#	J-55	1055'	550 SX C CIRC CMT
5-1/2"	15.5#	J-55	6100'	1700 SX C TOC 1575'

## LOGS:

<u>Date</u>	<u>Company</u>	<u>Log Name</u>
03/14/95	WESTERN	GR SL ZDL/CN
03/17/95	WEDGE	GR/CCL, DLL/MLL

## INITIAL COMPLETION:

Date: 03/24/95  
Zone: Blinebry-Tubb-Drinkard  
Perforations: 5595,5612,5648,5697,5704,5710,5731,5759,5790,5807,  
5840,5849,5870,5905,5918,5930,5948,5954,5962,5972,  
5978,5990,5995,6006,6012,6014. 1 sfp, 26 shots.  
  
5114,5121,5126,5137,5149,5154,5161,5170,5190,5196,  
5202,5215,5220,5241,5258,5270,5286,5307,5332,5415,  
5417,5440,5471,5480,5507. 1 spf, 25 shots.  
  
Stimulations: 5595' – 6014' Acid w/ 1,000 gals. Gel w/ 38,000 gals and  
126,000# sand.  
5114' – 5507' Acid w/ 1,000 gals. Gel w/ 38,000 gals and  
126,000# sand.  
  
Initial Potentials: Pumped/ 24 HR., 100 BO, 100 BW, 149 MCF.

## SOUTH JUSTIS UNIT "C" 131

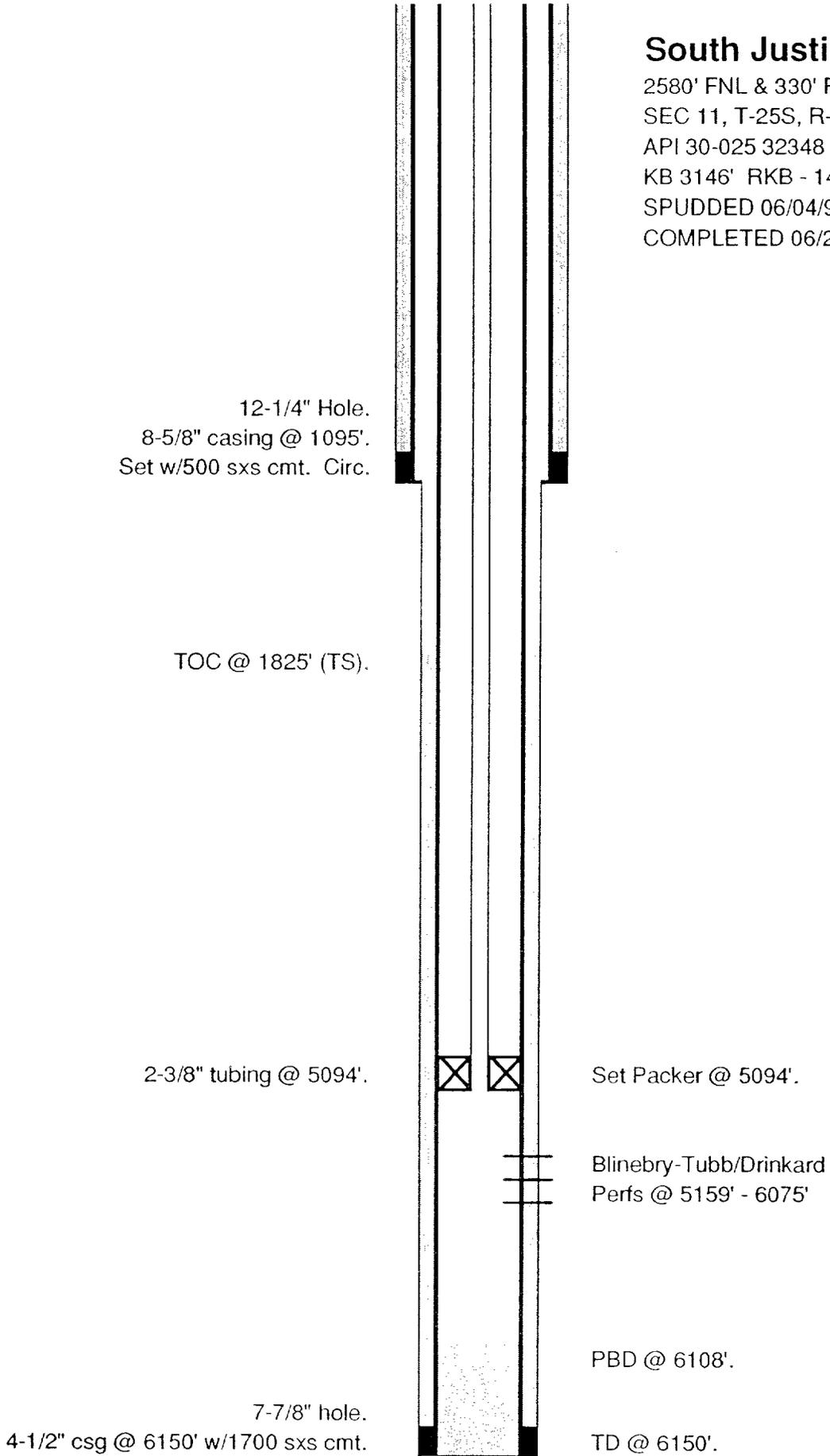
### TREATMENTS AND WORKOVERS

03/95	Clean out Sand, 5510' – 6029'. Install Pumping Unit, spaced out, load and test to 500#.
04/95	Change out Tubing head.
02/99	Circulate 91 bbls condensate, Pumped 2000 gals 15% HCL down casing, followed by 165 gals SI-4003 in 40 bbls fresh water. Flushed w/ 150 bbls.
02/99	Speed unit up to 8.8 spm, Slow unit down to 6.7 spm.
07/2000	Pumped 44 bbls condensate down casing. Slow unit down to 6.5 spm.

# WELLBORE SCHEMATIC

## South Justis Unit "D" #130

2580' FNL & 330' FEL (H)  
SEC 11, T-25S, R-37E, LEA CO., NM  
API 30-025 32348  
KB 3146' RKB - 14'  
SPUDDED 06/04/95  
COMPLETED 06/22/95



12-1/4" Hole.  
8-5/8" casing @ 1095'.  
Set w/500 sxs cmt. Circ.

TOC @ 1825' (TS).

2-3/8" tubing @ 5094'.

Set Packer @ 5094'.

Blinebry-Tubb/Drinkard  
Perfs @ 5159' - 6075'

PBD @ 6108'.

7-7/8" hole.  
4-1/2" csg @ 6150' w/1700 sxs cmt.

TD @ 6150'.

## SOUTH JUSTIS UNIT "D" 130

**LOCATION:** 2580' FNL & 330' FEL (H), 11-25S-37E  
LEA COUNTY, NEW MEXICO

**OPERATOR:** ARCO PERMIAN

**BLM TRACT NUMBER:** 09                      **API NUMBER:** 30-025-32348

**SPUD DATE:** 06/04/95

KB: 3146'                      GL: 3132'                      TD: 6150'                      PBTD: 6108'

### **CASING RECORD:**

<u>Size</u>	<u>Wt</u>	<u>Grade</u>	<u>Depth</u>	<u>Cementing Record</u>
8-5/8"	24#	J-55	1095'	500 SX C CIRC CMT
4-1/2"	10.5#	J-55	6150'	1700 SX C TOC 1825

### **LOGS:**

<u>Date</u>	<u>Company</u>	<u>Log Name</u>
06/15/95	WEDGE	GR/CPNL/CCL

### **INITIAL COMPLETION:**

**Date:** 06/22/95  
**Zone:** Blinbry-Tubb-Drinkard  
**Perforations:** 5159' - 6075'(71' @ 2SPF = 142 perfs)  
**Stimulations:** 5159 - 5447' Acidize w/3,000 gals  
5512 - 5749' Acidize w/2850 gals  
5807 - 6075' Acidize w/4800 gals

**Initial Potentials:**  
COMPLETED AS AN INJECTION WELL.

### **TREATMENTS AND WORKOVERS**



# WELLBORE SCHEMATIC

## Two States Stuart #1

Meridian

2310' FSL & 990' FWL (L)

Sec. 11, T-25S, R-37E, Lea Co., NM

KB 3128'

Spudded 12/28/63

Completed 02/17/64

TA'D 05/17/91

12-1/4" hole.  
9-5/8" casing @ 1027'.  
Set w/668 sxs cmt. Circ.

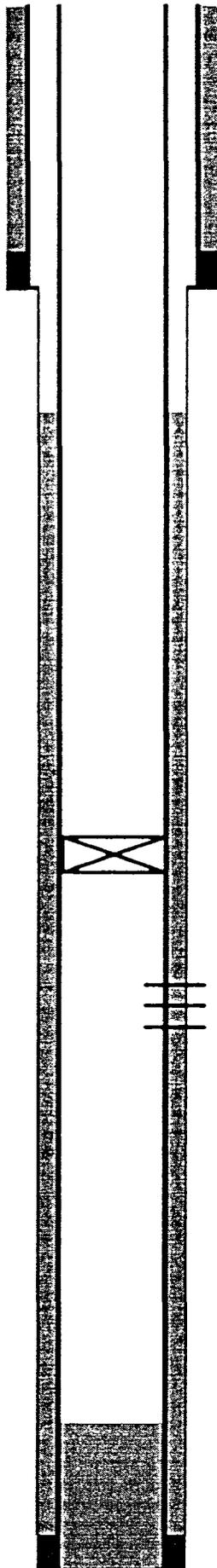
TOC @ 1530' (Measured)

CIBP @ 5000'

Blinbry perms @ 5380' to 5605'.  
TA'd 01/76

8-3/4" hole.  
4-1/2" csg @ 6200' w/1085 sxs cmt.

TD @ 6200'.



# TWO STATES STUART #1

**LOCATION:** 2310' FSL & 990' FWL (L), SEC. 11, T-25S, R-37E  
LEA COUNTY, NEW MEXICO

**FORMER OPERATOR:** MERIDIAN

**FORMER WELL NAME:**

**BLM TRACT NUMBER:** **API NUMBER:** 3002520492

**SPUD DATE:** 12/28/63

KB: 3128' GL: 3115' TD: 6200' PBTD:

**CASING RECORD:**

<u>Size</u>	<u>Wt</u>	<u>Grade</u>	<u>Depth</u>	<u>Cementing Record</u>
9-5/8"			1027'	668 sxs cmt
4-1/2"			6200'	1325 sxs cmt

**LOGS:**

<u>Date</u>	<u>Company</u>	<u>Log Name</u>
1-31-64	Welex	Sonic, Guard, FoRxo

**DST's:**

1	Blinebry	5955-6030'	Open 1', rec 10' mud, FP 71-81#, FSIP 112#
---	----------	------------	---

**INITIAL COMPLETION:** Blinebry IP (5380-5605')  
F 503 BOPD, TP 125#, 32/64" ck, Gravity 39°

**INITIAL COMPLETION DATE:** 2/17/64

**TREATMENTS AND WORKOVERS**

Perf Blinebry 5380', 5434', 41', 45', 49', 51', 57', 82', 99', 5512', 23', 37', 55', 5605'  
Acidized/2000 gals, Flwd 20,000 gals gelled acid, 20,000# sd.  
Well TA'd 5-1-68

Set CIPB @ 5000'. TIH with tubing and circulate inhibited fluid. Casing volume is 85 bbls.  
Close BOP and pressure test casing to 500 psi. Hold for 30 minutes. Held OK.  
TA'd 5/17/91

# WELLBORE SCHEMATIC

## South Justis Unit B #150

(ARCO Stuart 'A' WN #2)  
330' FNL & 2310' FWL (C)  
Sec. 14, T-25S, R-37E, Lea Co., NM  
API 30-025-20848  
KB 3142'  
Spudded 08/23/64  
Completed 10/12/64

12-1/4" hole.  
9-5/8" casing @ 1004'.  
Set w/464 sxs cmt. Circ.

TOC @ 2600' by TS.

Blinebry Perfs @ 5135' to 5942'.

2-3/8" tubing @ 5134'.

PACKER @ 5133'

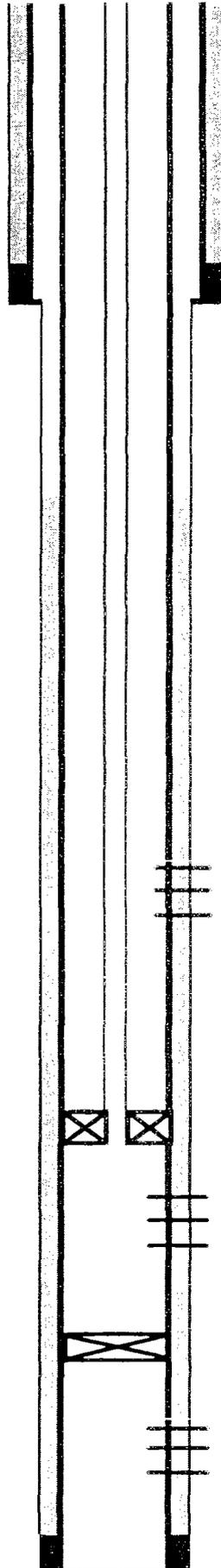
Tubb/Drinkard Perfs @ 5958' to 6079'.

CIBP @ 6088'.

Drinkard Perfs @ 6098' to 6174'.

8-3/4" hole.  
7" csg @ 6250' w/1195 sxs cmt.

TD @ 6250'.



## SOUTH JUSTIS UNIT "B" #150

**LOCATION:** 330' FNL & 2310' FWL (C), SEC. 14, T-25S, R-37E  
LEA COUNTY, NEW MEXICO

**FORMER OPERATOR:** ARCO OIL AND GAS COMPANY

**FORMER WELL NAME:** STUART "A" WN #2

**BLM TRACT NUMBER:** 46      **API NUMBER:** 3002520848

**SPUD DATE:** 8/23/64

KB: 3142'      GL:      TD: 6250'      PBTB:

### **CASING RECORD:**

<u>Size</u>	<u>Wt</u>	<u>Grade</u>	<u>Depth</u>	<u>Cementing Record</u>
9-5/8"	32-36#	H-40	1004'	464 sxs cmt, circ
7"	23#	N-80	6250'	1195 sxs cmt, (TOC @2600' TS)

### **LOGS:**

<u>Date</u>	<u>Company</u>	<u>Log Name</u>
9-19-64	Lane Wells	Sonic, LL, MLL, MOP
2-91	Schlumberger	NGT-GST

### **DST's:**

**INITIAL COMPLETION:** Tubb/Drinkard - 189 BOPD, 975 GOR, 34.5° Gravity,  
3 BWPD, FTP 350#, 16/64" choke  
Blinebry - 204 BOPD, 0 BW, 660 GOR, 35.4° Gravity,  
FTP 900# on 10/64" choke

**INITIAL COMPLETION DATE:** 10/12/64

### **TREATMENTS AND WORKOVERS:**

10-64: Perf Drinkard 6098-6171', A/1500 SOF/15/10, would not flow-abdnd.  
Perf Tubb/Drinkard 5958-6079', A/1500 SOF 15/15. OPT F 63 BO,  
1 BW/8 hrs.

Perf Blinebry 5377-5618', A/1500, SOF/20/20. OPT F 67 BO/8 hrs.  
Perf Drinkard 5958-62', 6012-16', 18-20', 24-28', 52-58', 72-82',  
98-6109', 14-16', 35-40', 44-60', 69-74'. Blinebry 5377-94',  
5468-70', 5530-32', 90-92', 5600-04', 08-21'. Set Model "D" pkr  
@ 5850'.

### **TREATMENTS AND WORKOVERS (continued):**

## SOUTH JUSTIS UNIT "B" #150

- 4-69 Set DR plug in pkr, w/25 sx cmt on top. P&A'd T/D.  
Perf Blinebry 5165', 66', 72', 91', 97', 98', 5209', 22', 26', 45', 48',  
49', 52', 58', 61', 63', 88', 90', 5313', 14', 37', 38' (2 spf).  
A/2000, SWF/30/30
- 10-83 Knocked Model "D" pkr to 6085'. Acidized Tubb/Drinkard 5958-6079'  
w/1500. Downhole commingled Blinebry & Tubb/Drinkard.
- 2-91 Ran logs
- 12-93 Pressuretested 7" casing from 5023'-surface to 300#. Perf'd Blinebry-  
Tubb/Drinkard from 5135'-5942 (41' @ 2 SPF = 82 holes). 5135, 41, 49, 5273, 82,  
5328, 46, 55, 62, 5441, 57, 5517, 56, 5642, 46, 63, 72, 5709, 26, 31, 38, 46, 59, 68,  
73, 76, 84, 5801, 12, 16, 38, 45, 67, 70, 79, 86, 5912, 15, 21, 27, 42.  
Acidized Blinebry-Tubb/Drinkard perfs 5135'-6079' in 3 stages w/21,700 gals acid.  
Set injection tubing and packer @ 5043'.
- 06-94 Removed injection tubing and packer. Ran 2-3/8" tubing to 6055'.
- 05/05/95 Converted to injection well.

# Exhibit V

## Area of Review

### Proposed Water Injection Conversions

#### South Justis Unit B-12 and B-13

Exhibit V  
 Area of Review  
 Proposed Water Injection Conversions  
 South Justis Unit B-12 and B-13

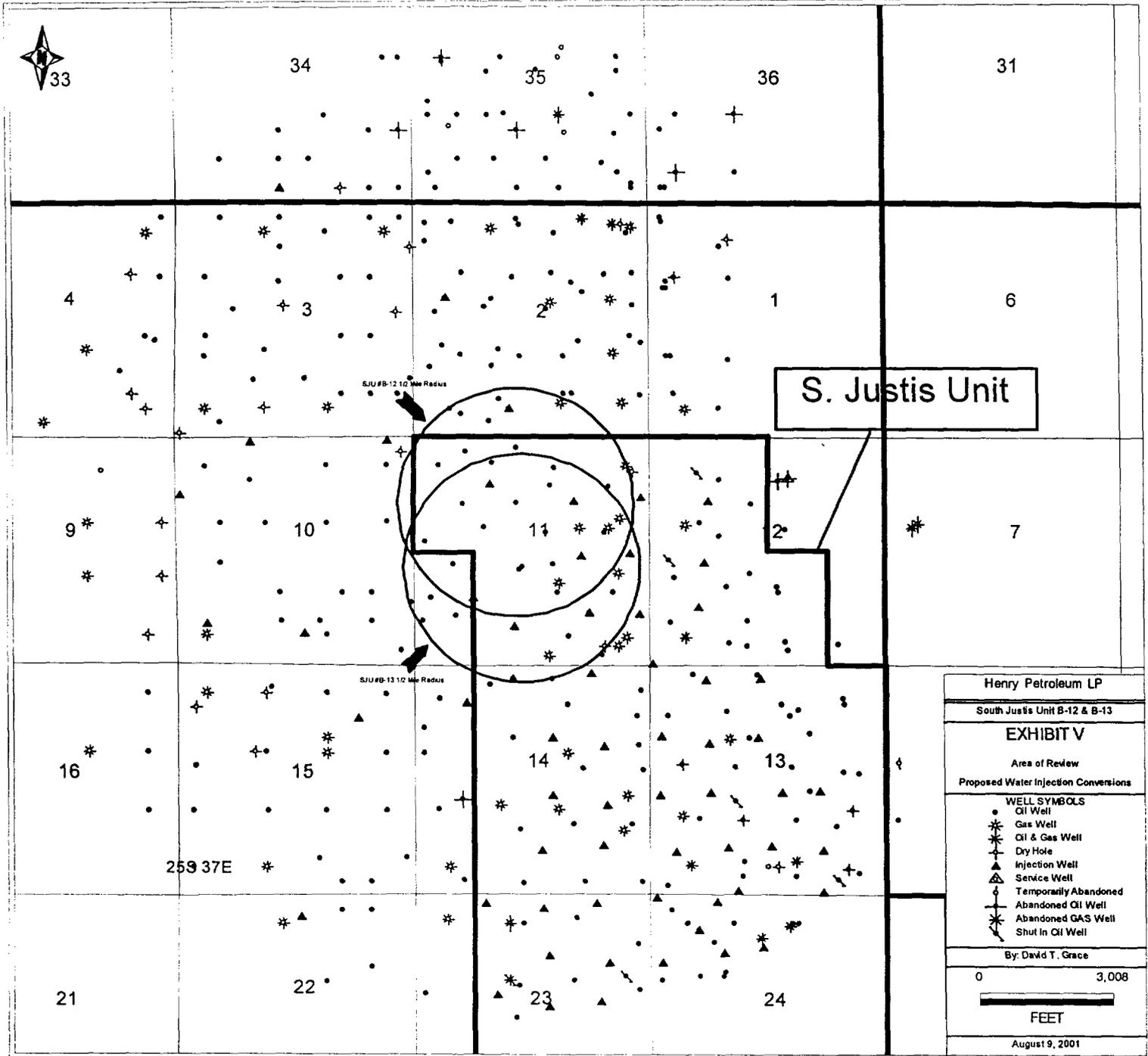
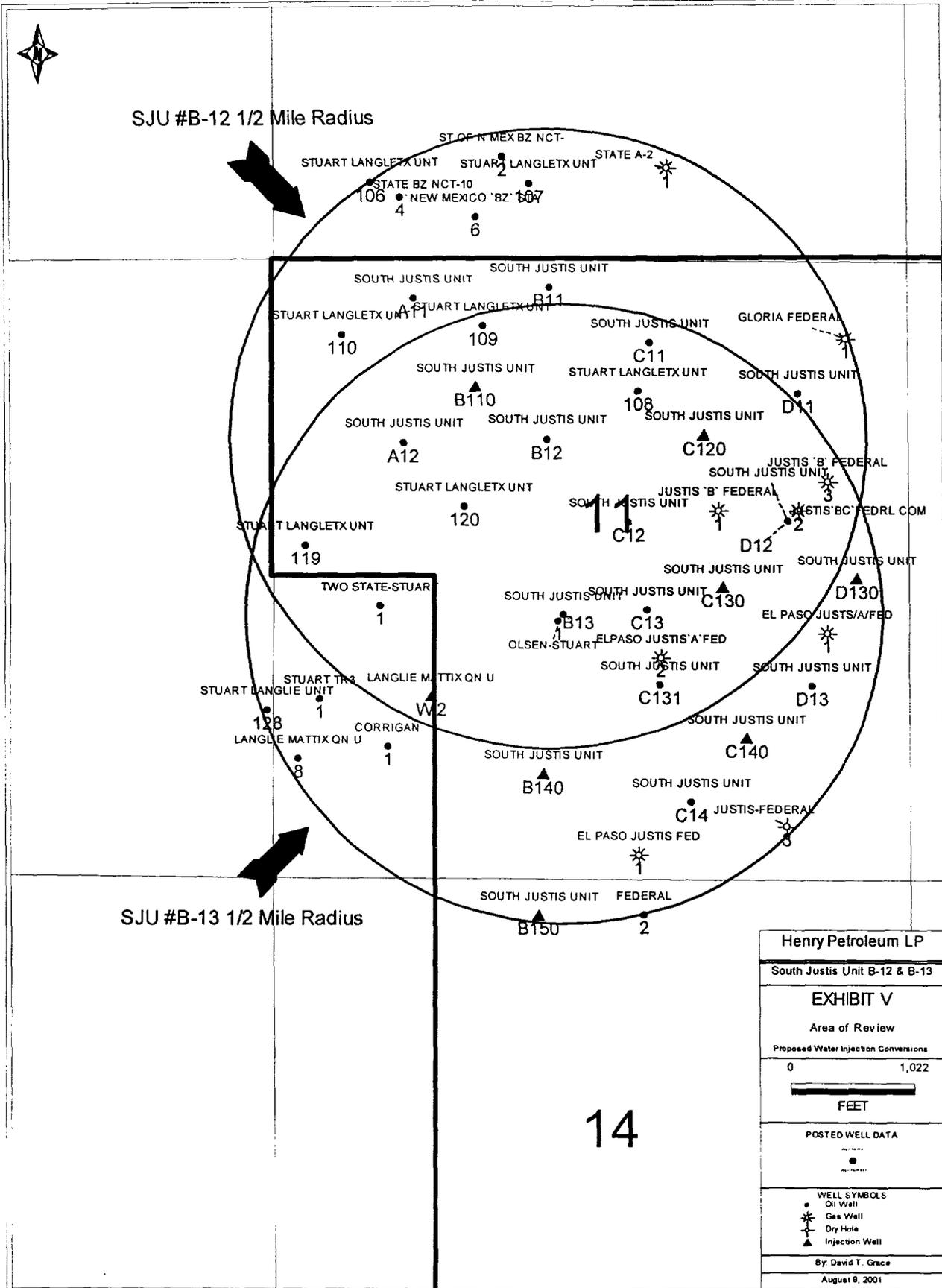


Exhibit V  
 Area of Review  
 Proposed Water Injection Conversions  
 South Justis Unit B-12 and B-13



SJU #B-12 1/2 Mile Radius

SJU #B-13 1/2 Mile Radius

14

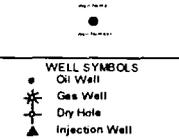
Henry Petroleum LP	
South Justis Unit B-12 & B-13	
<b>EXHIBIT V</b>	
Area of Review	
Proposed Water Injection Conversions	
0	1,022
	
FEET	
POSTED WELL DATA	
	
WELL SYMBOLS	
<ul style="list-style-type: none"> <li>● Oil Well</li> <li>* Gas Well</li> <li>+ Dry Hole</li> <li>▲ Injection Well</li> </ul>	
By: David T. Grace	
August 9, 2001	

EXHIBIT VI  
 Tabulation of Well Data  
 Proposed Water Injection Conversions  
 South Justis Unit B-12 and B-13

UWI (API Num)	Operator	Well Name	Well #	TD	Sec.	Twncshp	Range	Location (Footage)
30025331680100	TEXACO EXPL&PROD INC	NEW MEXICO 'BZ' STA	6	6500	2	25S	37E	480 FSL 1650 FWL
30025203260000	TEXACO INCORPORATED	STATE BZ NCT-10	4	6240	2	25S	37E	660 FSL 989 FWL
30025200030001	TEXACO INCORPORATED	STATE OF NM BZ NCT-	2	6150	2	25S	37E	990 FSL 1978 FWL
30025216480000	RHODES J CECIL	CORRIGAN	1	5555	11	25S	37E	990 FSL 990 FWL
30025207660000	UNION TEXAS PET CORP	OLSEN-STUART	1	6200	11	25S	37E	2310 FSL 2310 FWL
30025115410002	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	C-12	6130	11	25S	37E	2310 FNL 2310 FEL
30025201300000	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	C-11	6177	11	25S	37E	660 FNL 2310 FEL
30025202750001	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	B-11	6140	11	25S	37E	330 FNL 2310 FWL
30025203910000	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	C-14	6129	11	25S	37E	660 FSL 1980 FEL
30025205330001	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	A-11	6200	11	25S	37E	330 FNL 990 FWL
30025205440000	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	C-13	6150	11	25S	37E	2310 FSL 2310 FEL
30025205470000	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	B-12	6150	11	25S	37E	1650 FNL 2310 FWL
30025209940001	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	D-13	6200	11	25S	37E	1650 FSL 990 FEL
30025209950000	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	A-12	6180	11	25S	37E	1650 FNL 990 FWL
30025210580000	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	D-12	6175	11	25S	37E	2310 FNL 990 FEL
30025210780000	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	B-13	6200	11	25S	37E	2160 FSL 2310 FWL
30025211880000	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	D-11	6250	11	25S	37E	990 FNL 990 FEL
30025213280000	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	B-140	6240	11	25S	37E	990 FSL 2310 FWL
30025323160000	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	C-130	6150	11	25S	37E	2500 FSL 1650 FEL
30025323170001	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT WW	C-140	6150	11	25S	37E	1200 FSL 1450 FEL
30025323180000	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	C-120	6150	11	25S	37E	1500 FNL 1550 FEL
30025323210000	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	B-110	6150	11	25S	37E	990 FNL 1650 FWL
30025323220000	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	C-131	6100	11	25S	37E	1655 FSL 2200 FEL
30025323480000	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	D-130	6150	11	25S	37E	2580 FNL 330 FEL
30025204920000	UNION TEXAS PET CORP	TWO STATE-STUART	1	6200	11	25S	37E	2310 FSL 990 FWL
30025208480001	HENRY PETROLEUM LP	SOUTH JUSTIS UNIT	B-150	6250	14	25S	37E	330 FNL 2310 FWL

Exhibit VII

Operational Data  
Proposed Water Injection Conversions  
South Justis Unit B-12 and B-13

## EXHIBIT VII

### Operational Data Proposed Water Injection Conversions South Justis Unit B-12 and B- 13

1. Proposed maximum water injection rate is 1000 barrels water per day. Estimated average water injection rate is 750 barrels water per day.
2. The proposed maximum water injection pressure measured at the wellhead is 1020 psi.  
The average estimated water injection pressure measured at the wellhead is 800 psi.
3. The water injection system is closed.
4. The sources of water injection fluid are produced water from the Blinebry-Tubb/Drinkard formation and San Andres water from three water supply wells, WSW-1 (NW/4 Sec 24), WSW-2 (NW/4 Sec 23), and WSW-3 (NW/4 Sec 23).
5. The make-up water from the San Andres formation is compatible with the produced water from the South Justis Unit wells. Water from Chevron's Stuart Langlie-Mattix #111 is typical San Andres water and is shown to be compatible with produced water from the Blinebry-Tubb/Drinkard formation by the attached water analysis from Martin Water Labs in Midland, Texas.

**Note:** The pressures and rates referenced in 1. and 2. above are consistent with current approved rates and pressures on all active water injection wells in the South Justis Unit.





Exhibit VIII

Geologic Data  
Proposed Water Injection Conversions  
South Justis Unit B-12 and B-13

## Exhibit VIII

### GEOLOGICAL REVIEW PROPOSED WATER INJECTION CONVERSIONS SOUTH JUSTIS UNIT B-12 and B-13

The Justis Field straddles a north-south trending anticline which is approximately 9 miles long and 2 miles wide. Although the field has a structural closure, the dominant trapping mechanism of hydrocarbons is stratigraphic interfingering between reservoir and non-reservoir rock. Producing horizons in the South Justis Unit area include (from oldest to youngest), Ellenburger, McKee, Montoya, Fusselman, Tubb/Drinkard, Blinebry and Glorieta formations. The formations of interest in this review, and within the unitized interval, are primarily the Blinebry formation, which in the B-12 and B-13 is 710 feet thick, and to a lesser degree the Tubb/Drinkard formation, which is approximately 475 feet thick. Depositionally, the formations present in the South Justis Unit are typical of those found in other Lower Permian carbonate reservoirs on the Central Basin Platform. Four depositional facies have been recognized: Deep Subtidal, Shallow Subtidal, Intertidal, and Supratidal. The Shallow Subtidal facies is the main reservoir facies in Justis Blinebry and Tubb/Drinkard, containing the most consistent porosity development in the field. Increased depositional energy associated with the shallower water depth created an overall coarser texture in Shallow Subtidal sediments. The Shallow Subtidal facies is dominantly massive, but locally exhibits some discontinuous, uneven, parallel bedding. The porosity preserved in Justis carbonates is primarily controlled by diagenetic processes. Primary porosity has been almost totally destroyed by dolomitization and evaporite cementation. Effective porosity (defined as interconnected pore networks) is abundant only within the Shallow Subtidal facies and is mainly intercrystalline, interparticle, and to a lesser degree, 'touching' moldic porosity.

The South Justis Unit is located approximately 4 miles east of Jal, New Mexico.

Fresh water zones within the boundaries of the South Justis Unit are the Quaternary alluvium, Pliocene Ogallala, and the Triassic Chinle and Santa Rosa formations.

The Quaternary aquifers are in recent sediments and are very localized in extent. They are made up of eolian sands and sands filling channels and depressions in the underlying Ogallala. The sands are unconsolidated to semi-consolidated, fine to medium grained sands. They are found from the surface to depths of approximately 100 feet.

The Pliocene Ogallala aquifer underlies the Quaternary alluvium and is present across the entire area, but is not a major water source. The Ogallala is a

calcareous, unconsolidated sand containing some silt, clay and gravel. The Ogallala is found at approximately 60-125 feet.

The Triassic Chinle and Santa Rosa aquifers are the principal, fresh water bearing zones in this area. They are both fine to medium grained sandstones interbedded with red clays and siltstones. Within the South Justis Unit boundary, the Chinle is at a depth of approximately 50 feet. At the south end, the Santa Rosa is a depths of around 650 feet and at the north end is found at 640 feet.

Below the Santa Rosa are un-differentiated Permian and Triassic red beds. These "red beds" consist of red shales and red silty sandstones, and are not known to produce fresh water.

At the base of the Santa Rosa and the un-differentiated Permian and Triassic "red beds" is the Permian Rustler. At the top of the Rustler is an impermeable anhydrite bed, approximately 60-70 feet thick which provides an excellent barrier against contamination from brine waters in the underlying oil-producing formations. The Rustler anhydrite is at a depth of approximately 1025 feet. There are no known fresh water horizons below the Rustler anhydrite.

Surface casing was set below the base of the Santa Rosa in both of the proposed wells, and cement was circulated to the surface.

(Reference – Ground Water Report 6, NMBM&G, 1961)

Exhibit IX

Stimulation Program  
Proposed Water Injection Conversions  
South Justis Unit B-12 and B-13

## EXHIBIT IX

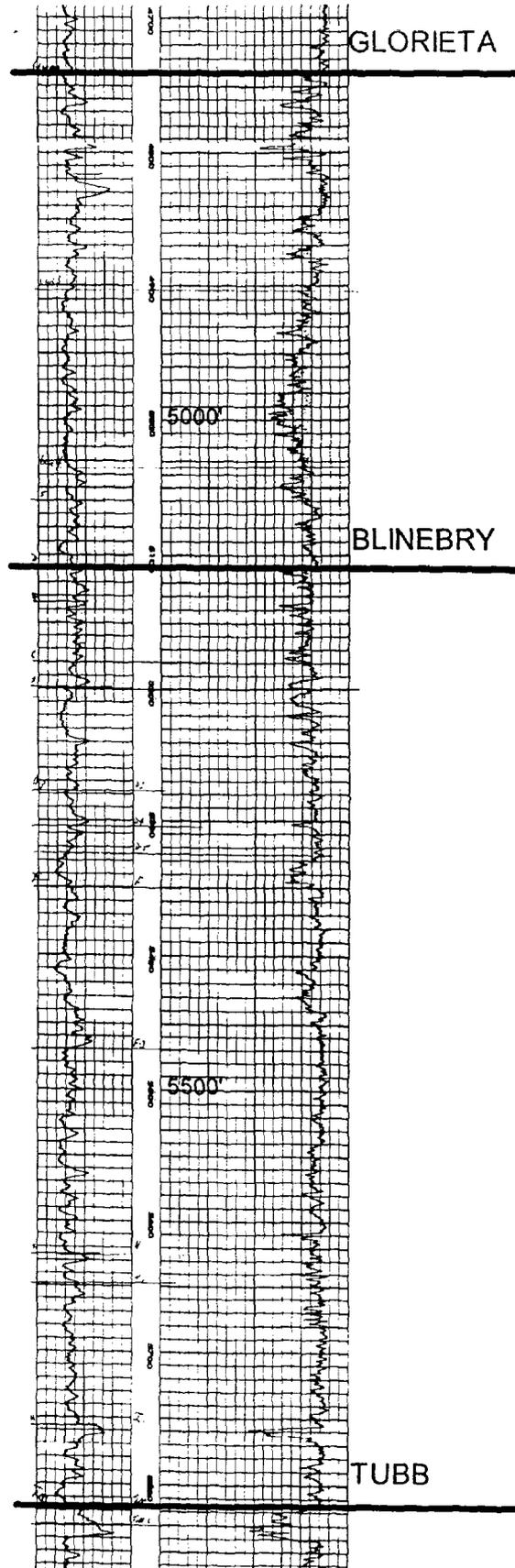
### Outline of Stimulation Program Proposed Water Injection Conversions South Justis Unit B-12 and B-13

- 1) All production equipment will be removed from the wells.
- 2) Selected intervals within the existing perforations will be squeezed cemented for injection profile control.
- 3) Additional perforations may be added within the Blinebry interval.
- 4) New and old Blinebry perforations will be acidized with 3000-5000 gals of 15% HCL acid.
- 5) Internally plastic coated tubing will be run with a packer on bottom and the packer will be set approximately 75' above the top perforation.
- 6) The Mechanical Integrity Test will be run and the well will be placed on water injection.

Exhibit X

Logging and Test Data  
Proposed Water Injection Conversions  
South Justis Unit B-12 and B-13

Exhibit X  
SJU B-12 Acoustic Velocity Log  
Proposed Water Injection Conversion



**SOUTH JUSTIS UNIT "B" #12**

**WELL NAME:** SOUTH JUSTIS UNIT "B" #12

**LOCATION:** 1650' FNL & 2310' FWL (F), SEC. 11, T-25S, R-37E  
LEA COUNTY, NEW MEXICO

**FORMER OPERATOR:** MERIDIAN

**FORMER WELL NAME:** STUART #7

**BLM TRACT NUMBER:** 3                      **API NUMBER:** 3002520547

**SPUD DATE:** 9/7/63

KB: 3131'              GL: 3117'              TD: 6150'              PBTD: 6117'

**CASING RECORD:**

<u>Size</u>	<u>Wt</u>	<u>Grade</u>	<u>Depth</u>	<u>Cementing Record</u>
9-5/8"	32.75#	H-40	1062'	536 sxs cmt + 50 sxs, circ
7"	20/23#		6150'	623 sxs cmt, (TOC @ 700' by TS)

**LOGS:**

<u>Date</u>	<u>Company</u>	<u>Log Name</u>
10/7/63	Welex	GR, Sonic, Guard, Forxo

**DST's:**

1	Paddock	4977-5034'	Open 2', Rec 2250' gas, 120' O&GC DF, + 360' sul wtr, 30" ISIP 765#, FP 127-233#, 1 hr FSIP 1190#
2	Blinebry	5310-5425'	Open 2-1/2', GTS 3", OTS-45#, F 60 BO in 1' 45", 30" ISIP 2412, FP 424-914#, 1-1/2 hrs, FSIP 2253#
3	Blinebry	5465-5585'	Open 30", rec 100' DF, 30" ISIP 347#, FP 102-112#, 30" FSIP 306#
4	Tubb/Drinkard	5830-5923'	Open 1-1/2', GTS 3", Rec 100' O&GC, DF & 1350' oil; 30" ISIP 2537, FP 228-518#, 1' FSIP 2502#
5	Tubb/Drinkard	5965-6044'	Open 1', rec 40' DF, 30 ISIP 297#, FP 106-106, 30" FSIP-329#
6	Tubb/Drinkard	6044-6150'	Open 1', rec 210' mud, 30" ISIP 316#, FP 91-132#, 30" FSIP 173#

## SOUTH JUSTIS UNIT "B" #12

**INITIAL COMPLETION:** IP Blinebry (5307-5478'), Flwd 698 BO, 22 BW, TP 450#, Gravity 38.5°  
Tubb/Drinkard (5849-6113'), Flwd 563 BO, TP 100#, 3/4" choke  
Gravity 37.8°

**INITIAL COMPLETION DATE:** 10/15/63

### **PERFORATIONS:**

<u>Date</u>	<u>Density</u>	<u>Perforations</u>
10/63	?	5307, 24, 32, 37, 43, 65, 95, 5412, 30, 36, 55, 78
10/63	?	5849, 55, 59, 67, 99, 5908, 25
10/63	?	5968, 85, 99, 6009, 15, 33, 39, 51, 75, 93, 6106, 13
9/15/95	1 SPI	5114, 131, 137, 158, 177, 198, 5213, 222, 234, 241, 266, 5547, 579, 593, 5613, 621, 635, 644, 667, 677, 5748, 770, 798, 5821'

### **TREATMENTS AND WORKOVERS:**

10/63 Perf Drinkard 5968', 85', 99', 6009', 15', 33', 39', 51', 75', 93',  
6106', 13, acidized (5968-6113) w/2,000 gals acid & frac'd w/15,000 gals &  
16,000# sd  
Perf Tubb 5849', 55', 59', 67', 99', 5908', 25'  
Acidized (5849-5925) w/2,000 gals acid & frac'd w/15,000 gals oil, 16,000# sd  
Perf Blinebry 5307', 24', 32', 37', 43', 65', 95', 5412', 30', 36'  
55', 78', Acidized (5307-5478) w/2,000 gals acid & frac'd w/20,000 gals gelled acid and  
20,000# sd.

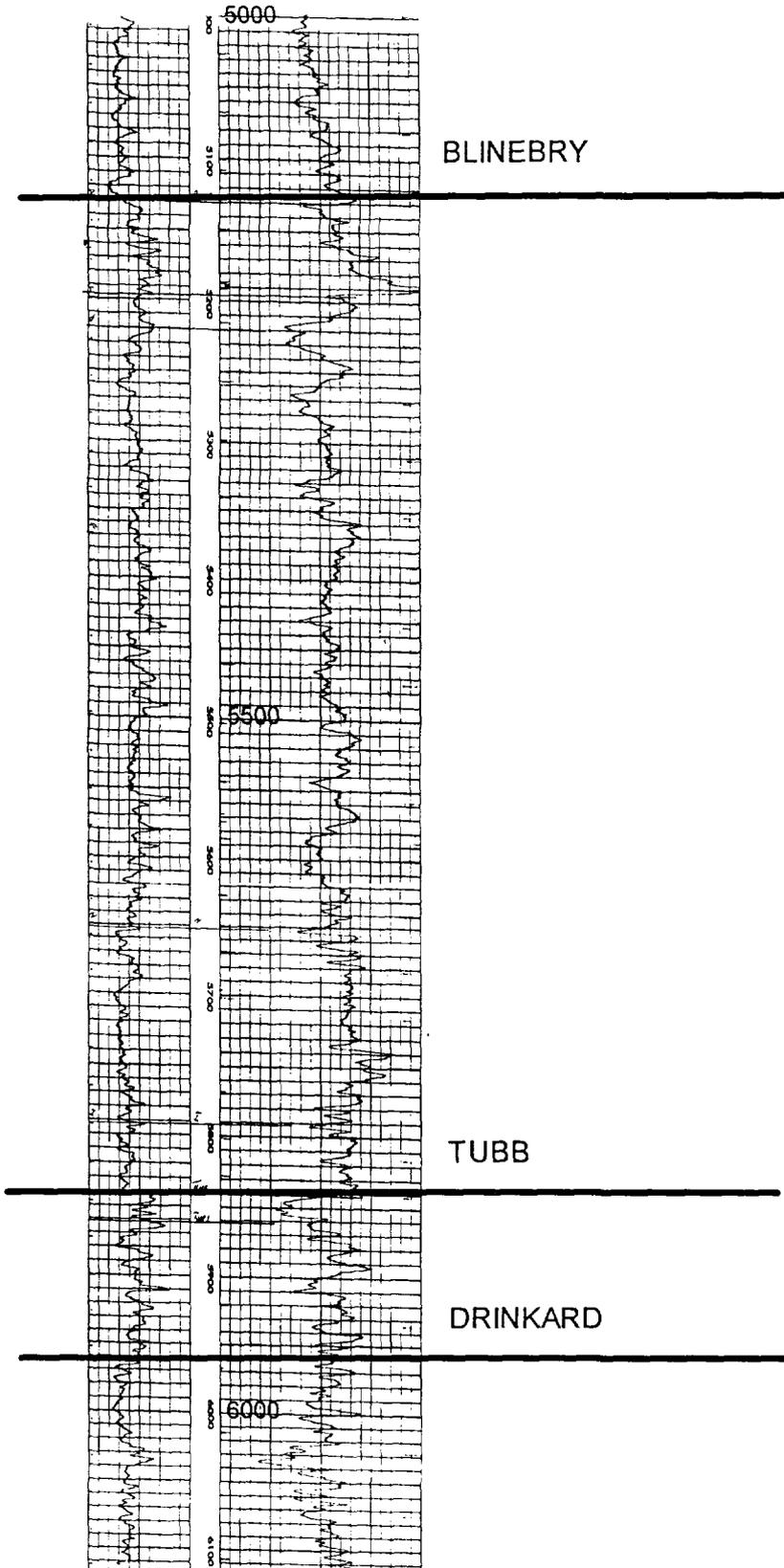
07/74 Set CIBP at 5495' & dumped 15' cmt on top. Tubb/Drinkard P&A'd.

04/93 Clean out 7" casing to 6130' PBD. Pressure test 7" casing to 500# for 30  
minutes from 5200' to surface.

9/16/95 GIH w/SAP tool to 5087', set tool and test to 4000# FIH w/tool to 5830',  
pickle tbg. drop ICV valve, open at 1480#, close at 520#, spot acid to tool.  
BJ acidize new perms f/5114-5821 w/75 gals per perf of 15% HCL. All perms  
broke fish valves, set pkr. at 5106', BJ acidize all perms f/5114-6113 w/1000  
gals 15% HCL, flush to 6113'.

1/11/2001 Acidized all perforations 5114-6113 with 2,000 gals 15% HCL.

Exhibit X  
SJU B-13 Radioactivity Log (GRN)  
Proposed Water Injection Conversion



## SOUTH JUSTIS UNIT "B" #13

**WELL NAME:** SOUTH JUSTIS UNIT "B" #13  
**LOCATION:** 2160' FSL & 2310' FWL (K), SEC. 11, T-25S, R-37E  
LEA COUNTY, NEW MEXICO

**FORMER OPERATOR:** MERIDIAN

**FORMER WELL NAME:** OLSEN STUART #2

**BLM TRACT NUMBER:** 37      **API NUMBER:** 3002521078

**SPUD DATE:** 10/9/64

KB: 3128'      GL: 3117'      TD: 6200'      PBSD: 6128'

### **CASING RECORD:**

<u>Size</u>	<u>Wt</u>	<u>Grade</u>	<u>Depth</u>	<u>Cementing Record</u>
9-5/8"	32.3#		954'	300 sxs cmt, circ
7"	26#		6200'	460 sxs cmt,

### **LOGS:**

<u>Date</u>	<u>Company</u>	<u>Log Name</u>
1/7/65	Western	GR
11-4-64	Schlumberger	Sonic

### **DST's:**

1	3102-95	Cored 3090-3195' Open 1' 30", Rec 300' GCM, FP 132-241 30" FSIP 241#.
2	3192-3251'	Cored 3210-51', 4850-5036' Open 1', GTS -59" TSTM, Rec 95' GCM, FP 42-74, 30" FSIP 149#
3	4855-4904'	Open 1', Rec 350' O&GCM, FP 87-131, 30"-FSIP 285
4	4900-93'	Open 1', rec 420' GCM, FP 109-175, 35" FSIP-285
5	4990-5068'	Op 1', rec 600' GCM, FP 285-438, 30" FSIP 723#

**INITIAL COMPLETION:** IP Blinebry (5195-5613'), P 99 BO, 110 BW, Gravity 36°  
Tubb/Drinkard (5873-6117') P 60 BO, 1 BW, Gravity 36.9°

## SOUTH JUSTIS UNIT "B" #13

**INITIAL COMPLETION DATE:** 1/28/65

**PERFORATIONS:**

<u>Date</u>	<u>Density</u>	<u>Perforations</u>
01/65	?	5989, 6038, 44, 68, 81, 92, 6112, 17
01/65	?	5873, 84, 95, 5909, 12, 22, 41, 55, 58
01/65	?	5195, 5225, 47, 56, 5347, 53, 61, 5403, 14, 5438, 55, 78, 5501, 12, 20, 32, 40, 65, 78, 84, 93, 5613
02/02/79	1 shot/2 ft	5144-5164, 5170-5178, 5208-5244, 5254-5284

**TREATMENTS AND WORKOVERS:**

01/65      Perfd Drinkard at 5989', 6038', 6044', 68', 81', 92', 6112', 6117'  
Perfd Tubb at 5873', 84', 95', 5909', 12', 22', 41', 55', 58  
Acidized (5873-6117') w/3,500 gals acid & frac'd w/30,000 gals oil & 30,000# sd.  
Perfd Blinebry at 5195', 5225', 47', 56', 5347', 53', 61', 5403', 14',  
38', 55', 78', 5501', 12', 20', 32', 40', 65', 78', 84', 93', 5613'  
Acidized (5195-5613) w/7,000 gals acid & frac'd w/30,000 gals gel acid & 30,000# sd.

12/68      Replaced tbg couplings

03/71      Dumped 200 gals acid down tbg

11/71      5873-6117 -- acidized Tubb w/1,500 gals 15% NEA & Blinebry (5195-5613) w/2000  
gals 15% NEA.  
Blinebry, pumped 8 BO, 21 BW in 16 hrs; Tubb, pumped 4 BO, 4 BW in  
6 hrs.

06/14/72      Commingled Blinebry and Tubb/Drinkard. Pumped 30 BO & 48 BW

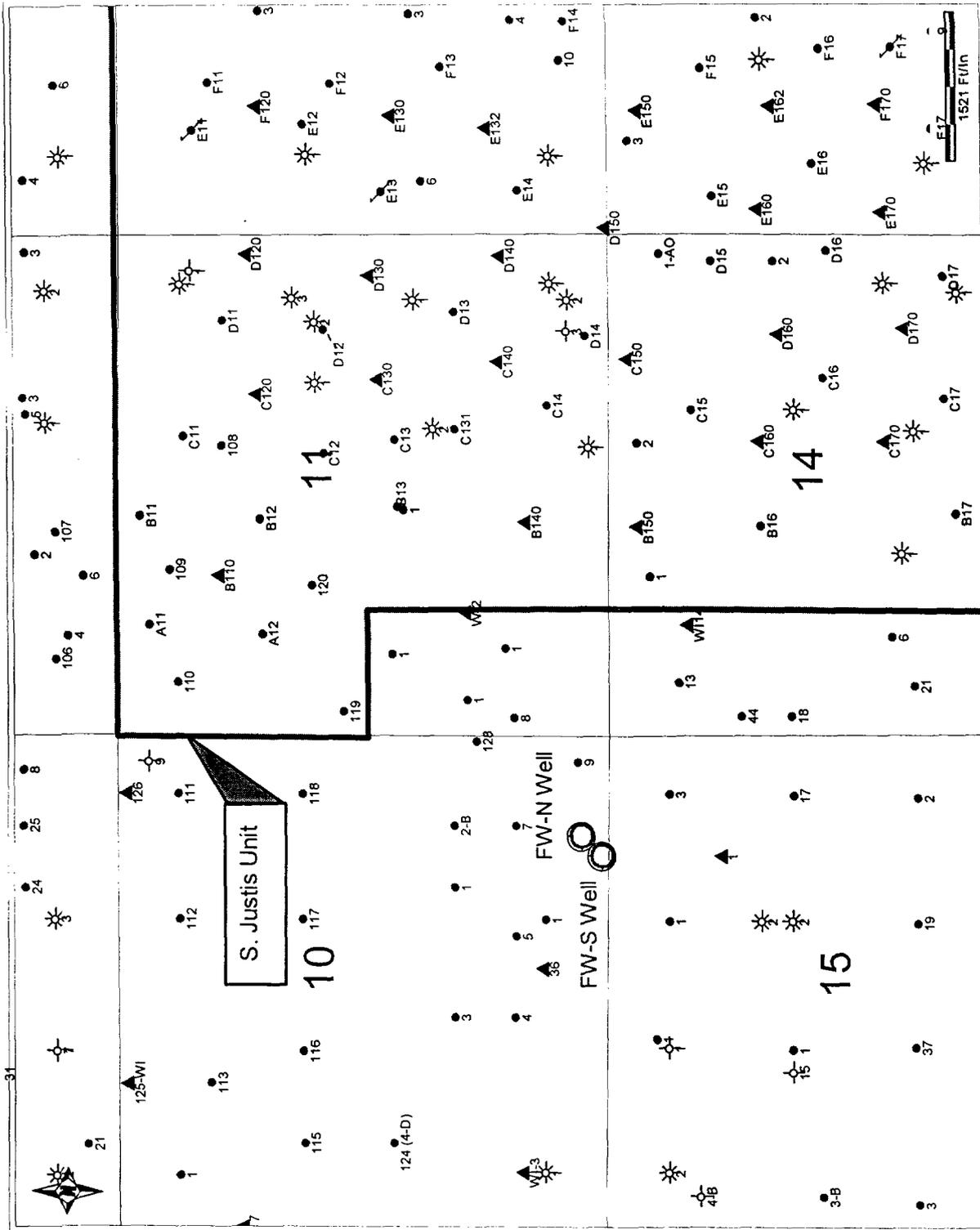
01/79      Perfd Blinebry w/1 shot per 2' 5144-64'. Acidized 5144-5164 w/4,000 gals and  
frac'd w/30,000 gals X-lined BW & 42,000# sd. POH w/BP.  
Pumped 19 BO, 108 BW, 13 MCF.

03/93      Clean out 7" casing to 6128' PBD. Pressure test casing to 500# (5081'  
to surface).

**Exhibit XI**

**Fresh Water Well Data Within One Mile  
Proposed Water Injection Conversions  
South Justis Unit B-12 and B-13**

**Exhibit XI**  
**Location of Fresh Water Wells**  
**Proposed Water Injection Conversions**  
**South Justis Unit B-12 & B-13**





North Permian Basin Region  
 P.O. Box 740  
 Sundown, TX 79372-0740  
 (806) 229-81821  
 Lab Team Leader - Sheila Hernandez  
 (915) 495-7240

## Water Analysis Report by Baker Petrolite

Company:	HENRY PRODUCTION INC	Sales RDT:	33513
Region:	PERMIAN BASIN	Account Manager:	RON MATTHEWS (505) 370-3916
Area:	JAL, NM	Sample #:	156356
Lease/Platform:	SOUTH JUSTIS UNIT	Analysis ID #:	20904
Entity (or well #):	NORTH WELL	Analysis Cost:	\$40.00
Formation:	UNKNOWN		
Sample Point:	WELLHEAD		

Summary		Analysis of Sample 156356 @ 75 °F					
		Anions		Cations			
		mg/l	meq/l	mg/l	meq/l		
Sampling Date:	8/22/01	<b>Chloride:</b>	<b>610.0</b>	<b>17.21</b>	<b>Sodium:</b>	<b>214.4</b>	<b>9.33</b>
Analysis Date:	8/23/01	<b>Bicarbonate:</b>	<b>100.0</b>	<b>1.64</b>	<b>Magnesium:</b>	<b>107.0</b>	<b>8.8</b>
Analyst:	JAMES AHRLETT	<b>Carbonate:</b>	<b>0.0</b>	<b>0.</b>	<b>Calcium:</b>	<b>402.0</b>	<b>20.06</b>
TDS (mg/l or g/m3):	2402.5	<b>Sulfate:</b>	<b>951.0</b>	<b>19.8</b>	<b>Strontium:</b>	<b>6.0</b>	<b>0.14</b>
Density (g/cm3, tonne/m3):	1.002	Phosphate:			<b>Barium:</b>	<b>0.1</b>	<b>0.</b>
Anion/Cation Ratio:	1.0000002	Borate:			<b>Iron:</b>	<b>1.0</b>	<b>0.04</b>
Carbon Dioxide:		Silicate:			Potassium:	11.0	0.28
Oxygen:		Hydrogen Sulfide:			Aluminum:		
Comments:		pH at time of sampling:		6.8	Chromium:		
		pH at time of analysis:			Copper:		
		<b>pH used in Calculation:</b>		<b>6.8</b>	Lead:		
					Manganese:		
					Nickel:		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO <sub>3</sub>		Gypsum CaSO <sub>4</sub> *2H <sub>2</sub> O		Anhydrite CaSO <sub>4</sub>		Celestite SrSO <sub>4</sub>		Barite BaSO <sub>4</sub>		CO <sub>2</sub> Press
		Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
80	0	-0.40	0.00	-0.37	0.00	-0.44	0.00	-0.51	0.00	0.84	0.00	0.2
100	0	-0.27	0.00	-0.37	0.00	-0.37	0.00	-0.50	0.00	0.70	0.00	0.26
120	0	-0.13	0.00	-0.36	0.00	-0.28	0.00	-0.48	0.00	0.58	0.00	0.33
140	0	0.02	0.35	-0.34	0.00	-0.17	0.00	-0.45	0.00	0.48	0.00	0.4

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.



North Permian Basin Region  
 P.O. Box 740  
 Sundown, TX 79372-0740  
 (806) 229-81821  
 Lab Team Leader - Sheila Hernandez  
 (915) 495-7240

## Water Analysis Report by Baker Petrolite

Company:	HENRY PRODUCTION INC	Sales RDT:	33513
Region:	PERMIAN BASIN	Account Manager:	RON MATTHEWS (505) 370-3916
Area:	JAL, NM	Sample #:	156379
Lease/Platform:	SOUTH JUSTIS UNIT	Analysis ID #:	20905
Entity (or well #):	SOUTH WELL	Analysis Cost:	\$40.00
Formation:	UNKNOWN		
Sample Point:	WELLHEAD		

Summary		Analysis of Sample 156379 @ 75 °F					
Sampling Date:	8/22/01	<b>Anions</b>	mg/l	meq/l	<b>Cations</b>	mg/l	meq/l
Analysis Date:	8/23/01	Chloride:	293.0	8.26	Sodium:	136.4	5.93
Analyst:	JAMES AHRLETT	Bicarbonate:	100.0	1.64	Magnesium:	73.0	6.01
TDS (mg/l or g/m3):	1614.5	Carbonate:	0.0	0.	Calcium:	260.0	12.97
Density (g/cm3, tonne/m3):	1.002	Sulfate:	738.0	15.37	Strontium:	5.0	0.11
Anion/Cation Ratio:	1.0000004	Phosphate:			Barium:	0.1	0.
Carbon Dioxide:		Borate:			Iron:	1.0	0.04
Oxygen:		Silicate:			Potassium:	8.0	0.2
Comments:		Hydrogen Sulfide:			Aluminum:		
		pH at time of sampling:		6.8	Chromium:		
		pH at time of analysis:			Copper:		
		pH used in Calculation:		6.8	Lead:		
					Manganese:		
					Nickel:		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO <sub>3</sub>		Gypsum CaSO <sub>4</sub> *2H <sub>2</sub> O		Anhydrite CaSO <sub>4</sub>		Celestite SrSO <sub>4</sub>		Barite BaSO <sub>4</sub>		CO <sub>2</sub> Press
		Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
°F	psi											psi
80	0	-0.53	0.00	-0.55	0.00	-0.62	0.00	-0.59	0.00	0.85	0.00	0.21
100	0	-0.39	0.00	-0.55	0.00	-0.56	0.00	-0.58	0.00	0.70	0.00	0.28
120	0	-0.25	0.00	-0.54	0.00	-0.47	0.00	-0.55	0.00	0.58	0.00	0.34
140	0	-0.10	0.00	-0.52	0.00	-0.35	0.00	-0.52	0.00	0.49	0.00	0.42

- 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.

Exhibit XII

Geologic and Engineering Statement  
Proposed Water Injection Conversions  
South Justis Unit B-12 and B-13

Exhibit XII

GEOLOGICAL STATEMENT  
PROPOSED WATER INJECTION CONVERSIONS  
SOUTH JUSTIS UNIT B-12 and B-13

Henry Petroleum LP has examined available geological and engineering data and finds no evidence of open faults or any other hydrologic connection between the waterflood zone and any underground source of drinking water.

**Exhibit XIV**

**Proof of Notice**

**Proposed Water Injection Conversions**

**South Justis Unit B-12 and B-13**



# Advertising Receipt

**Hobbs Daily News-Sun**

201 N Thorp  
P O Box 850  
Hobbs, NM 88241-0850  
Phone: (505) 393-2123  
Fax: (505) 397-0610

Roy Johnson  
Henry Petroleum LP  
3525 Andrews Highway  
MIDLAND, TX 79703

**Cust#:** 67100199-000  
**Ad#:** 67502051  
**Phone:** (915)694-3000  
**Date:** 08/10/01

**Ad taker:** VG      **Salesperson:**      **Classification:** n672

Description	Start	Stop	Ins.	Cost/Day	Surcharges	Total
07 07 Daily News-Sun	08/11/01	08/11/01	1	39.97		39.97
Affidavit for legals						2.00

**Payment Reference:**

GAL NOTICE  
August 11, 2001

This is to advise all parties concerned, HENRY PETROLEUM LP intends to convert from producer to injector status the South Justis Unit (SJU) B12 and B13. These wells are included in the SJU Waterflood Project which currently has over 90 active water injection wells.

South Justis Unit-B-Well # 12  
1650' FNL & 2310' FWL Unit Letter F  
Section 11, R-37-E, T-25-S  
Lea County, NM

South Justis Unit-B-Well # 13  
2160' FSL & 2310' FWL Unit Letter K  
Section 11, R-37-E, T-25-S  
Lea County, NM

**Total:** 41.97  
**Tax:** 2.52  
**Net:** 44.49  
**Prepaid:** 0.00  
**Total Due:** 44.49

# 18346

ENTITIES TO NOTIFY OF PROPOSED WATER INJECTION CONVERSIONS  
SOUTH JUSTIS UNIT B-12 and B-13

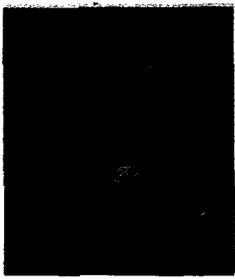
Surface Owner (NW/4 and E/2SW/4 Sec. 11, T-25-S, R-37-E, NMPM):

Johnny Mack Owen  
P.O. Box 1013  
Jal, NM 88252

Leasehold Operators (within 1/2 mile radius of the well locations):

Burlington Resources 3300 North A St. Bldg. 6 Midland, TX 79705	Chance Properties P.O. Box 1221 Kermit, TX 79745
*Chuzza Operating 3300 North A St. Ste 100 Midland, TX 79705	*Conoco Inc. 10 Desta Dr., Ste. 100W Midland, TX 79705
Energen Resources 3333 North A St., Bldg 4 Ste 100 Midland, TX 79705	*Exxon Corp. Box 4778 Houston, TX 77210
Gruy Petroleum Management Co. 600 Las Colinas Blvd. E. Ste 1200 Irving, TX 75039-5611	Lanexco, Inc. P.O. Box 2730 Midland, TX 79702
*Nadel and Gussman Permian LLC 601 N. Marienfeld St., Ste. 508 Midland, TX 79701	Prize Operating Co. 3500 William D. Tate, Ste. 1190 Grapevine, TX 76051-8734
Cecil J. Rhodes 500 W Texas, Ste 1190 Midland, TX 79701-4280	Taurus Exploration USA Inc. 3333 North A St., Bldg 4 Ste 100 Midland, TX 79705
Texaco Inc. P.O. Box 3109 Midland, TX 79702-3109	*Vista Resources Inc. 3500 William D. Tate, Ste. 1190 Grapevine, TX 76051-8734

\*This list includes operators of production leases which do not have producing wells within the 1/2 mile radius but the leases themselves are either within or in close proximity to the 1/2 mile radius.



**HENRY**

PETROLEUM LP

August 31, 2001

State of New Mexico  
New Mexico Oil Conservation Division  
Energy, Minerals And Natural  
Resources Department  
P. O. Box 6429  
Santa Fe NM 87505

Re: Proposed Water Injection Conversions  
South Justis Unit Wells No. B-12 & B-13  
Lea County, New Mexico

Attn: Mr. David R. Catanach

Dear Sir:

In the two enclosed notebooks please find the Application For Authorization To Inject Form C-108 from Henry Petroleum LP. All certifications for proof of notice were mailed on August 31, 2001 to the Surface Owner and to each leasehold operator within one-half mile of the well locations.

If anything else is needed please advise.

Very truly yours;

Henry Petroleum LP

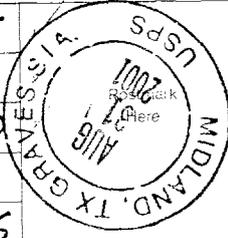
Roy R. Johnson  
Regulatory Tech.

Original & 1 copy to Santa Fe  
1 copy to NMOCD Hobbs

**U.S. Postal Service  
CERTIFIED MAIL RECEIPT**  
(Domestic Mail Only; No Insurance Coverage Provided)

7099 3400 0016 5957 1408

Postage	\$ 3.95
Certified Fee	2.10
Return Receipt Fee (Endorsement Required)	1.50
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 7.55</b>



Recipient's Name (Please Print Clearly) (to be completed by mailer)

**Chance Properties**  
Street, Apt. No., or PO Box No.  
**P. O. Box 1221**  
City, State, ZIP+4  
**Kermit TX 79745**

PS Form 3800, February 2000

See Reverse for Instructions

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2687 2565 9100 004E 6607

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Return Receipt Fee (Endorsement Required)	1.50
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 7.55</b>



Recipient's Name (Please Print Clearly) (to be completed by mailer)

**Conoco Inc.**  
Street, Apt. No., or PO Box No.  
**10 Desta Dr. - Suite 100 W**  
City, State, ZIP+4  
**Midland TX 79705**

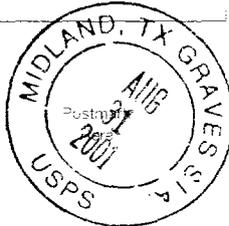
PS Form 3800, February 2000

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7099 3400 0016 5957 1365

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Return Receipt Fee (Endorsement Required)	1.50
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 7.55</b>



Recipient's Name (Please Print Clearly) (to be completed by mailer)

**Exxon Corp.**  
Street, Apt. No., or PO Box No.  
**P. O. Box 4778**  
City, State, ZIP+4  
**Houston TX 77210**

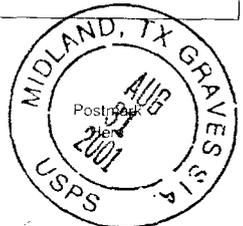
PS Form 3800, February 2000

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9082 2565 9100 004E 6607

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Return Receipt Fee (Endorsement Required)	1.50
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 7.55</b>



Recipient's Name (Please Print Clearly) (to be completed by mailer)

**Burlington Resources**  
Street, Apt. No., or PO Box No.  
**3300 N. "A" Street - Bldg. 6**  
City, State, ZIP+4  
**Midland TX 79705**

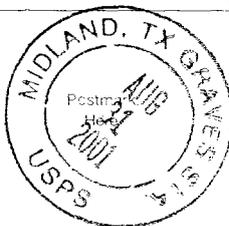
PS Form 3800, February 2000

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7099 3400 0016 5957 2290

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Certified Fee	2.10
Return Receipt Fee (Endorsement Required)	1.50
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 7.55</b>



Recipient's Name (Please Print Clearly) (to be completed by mailer)

**Nadel & Gussman Permian LLC**  
Street, Apt. No., or PO Box No.  
**601 N. Marienfeld St. - Suite 508**  
City, State, ZIP+4  
**Midland TX 79701**

PS Form 3800, February 2000

See Reverse for Instructions

**U.S. Postal Service  
CERTIFIED MAIL RECEIPT**  
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9292 2565 9100 004E 6607

Postage	\$ 3.95
Certified Fee	2.10
Return Receipt Fee (Endorsement Required)	1.50
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 7.55</b>



Recipient's Name (Please Print Clearly) (to be completed by mailer)

**Gruy Petroleum Management Co.**  
Street, Apt. No., or PO Box No.  
**600 Las Colinas Blvd. E. - Suite 12**  
City, State, ZIP+4  
**Irving TX 75039-5611**

PS Form 3800, February 2000

See Reverse for Instructions

7099 3400 0016 5957 1378

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Return Receipt Fee (Endorsement Required)	1.50
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 7.55</b>



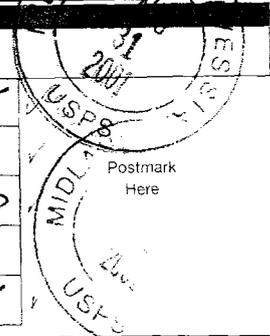
Recipient's Name (Please Print Clearly) (to be completed by mailer)  
**Lanexco, Inc.**  
 Street, Apt. No., or PO Box No.  
**P. O. Box 2730**  
 City, State, ZIP+4  
**Midland TX 79702**  
 PS Form 3800, February 2000 See Reverse for Instructions

7099 3400 0016 5957 2276

# U.S. Postal Service CERTIFIED MAIL RECEIPT

(Domestic Mail Only; No Insurance Coverage Provided)

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Certified Fee	2.10
Return Receipt Fee (Endorsement Required)	1.50
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 7.55</b>



Recipient's Name (Please Print Clearly) (to be completed by mailer) --  
**Energen Resources**  
 Street, Apt. No., or PO Box No.  
**3333 N. "A" St. - Bldg. 4 - Suite 100**  
 City, State, ZIP+4  
**Midland TX 79705**  
 PS Form 3800, February 2000 See Reverse for Instructions

7099 3400 0016 5957 2268

# U.S. Postal Service CERTIFIED MAIL RECEIPT

(Domestic Mail Only; No Insurance Coverage Provided)

Postage	\$ 3.95
Certified Fee	2.10
Return Receipt Fee (Endorsement Required)	1.50
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 7.55</b>



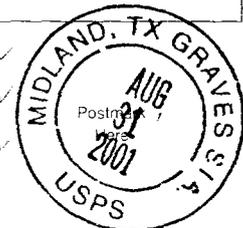
Recipient's Name (Please Print Clearly) (to be completed by mailer)  
**Chuzza Operating**  
 Street, Apt. No., or PO Box No.  
**3300 North "A" Street - Suite 100**  
 City, State, ZIP+4  
**Midland TX 79705**  
 PS Form 3800, February 2000 See Reverse for Instructions

7099 3400 0016 5957 1354

# U.S. Postal Service CERTIFIED MAIL RECEIPT

(Domestic Mail Only; No Insurance Coverage Provided)

Postage	\$ 3.95
Certified Fee	2.10
Return Receipt Fee (Endorsement Required)	1.50
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 7.55</b>



Recipient's Name (Please Print Clearly) (to be completed by mailer)  
**Taurus Exploration USA Inc.**  
 Street, Apt. No., or PO Box No.  
**3333 N. "A" St. - Bldg. 4**  
 City, State, ZIP+4  
**Suite 100 - Midland TX 79705**  
 PS Form 3800, February 2000 See Reverse for Instructions

7099 3400 0016 5957 2313

# U.S. Postal Service CERTIFIED MAIL RECEIPT

(Domestic Mail Only; No Insurance Coverage Provided)

Postage	\$ 3.95
Certified Fee	2.10
Return Receipt Fee (Endorsement Required)	1.50
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 7.55</b>



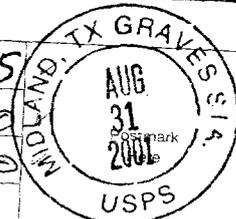
Recipient's Name (Please Print Clearly) (to be completed by mailer)  
**Johnny Mack Owen**  
 Street, Apt. No., or PO Box No.  
**P. O. Box 1013**  
 City, State, ZIP+4  
**Jal NM 88252**  
 PS Form 3800, February 2000 See Reverse for Instructions

7099 3400 0016 5957 2245

# U.S. Postal Service CERTIFIED MAIL RECEIPT

(Domestic Mail Only; No Insurance Coverage Provided)

Postage	\$ 3.95
Certified Fee	2.10
Return Receipt Fee (Endorsement Required)	1.50
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 7.55</b>



Recipient's Name (Please Print Clearly) (to be completed by mailer)  
**Texaco Inc.**  
 Street, Apt. No., or PO Box No.  
**P. O. Box 3109**  
 City, State, ZIP+4  
**Midland TX 79702-3109**  
 PS Form 3800, February 2000 See Reverse for Instructions

7099 3400 0016 5957 1347

**U.S. Postal Service  
CERTIFIED MAIL RECEIPT**  
(Domestic Mail Only; No Insurance Coverage Provided)

Postage	\$ 3.95
Certified Fee	2.10
Return Receipt Fee (Endorsement Required)	1.50
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 7.55</b>



Recipient's Name (Please Print Clearly) (to be completed by mailer)  
**Vista Resources Inc.**  
 Street, Apt. No., or PO Box No.  
**3500 William D. Tate - Suite 1190**  
 City, State, ZIP+4  
**Grapevine TX 76051-8734**

PS Form 3800, February 2000 See Reverse for Instructions

7099 3400 0016 5957 1361

**U.S. Postal Service  
CERTIFIED MAIL RECEIPT**  
(Domestic Mail Only; No Insurance Coverage Provided)

Postage	\$ 3.95
Certified Fee	2.10
Return Receipt Fee (Endorsement Required)	1.50
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 7.55</b>



Recipient's Name (Please Print Clearly) (to be completed by mailer)  
**Prize Operating Co**  
 Street, Apt. No., or PO Box No.  
**3500 William D. Tate - Suite 1190**  
 City, State, ZIP+4  
**Grapevine TX 76051-8734**

PS Form 3800, February 2000 See Reverse for Instructions

7099 3400 0016 5957 2252

**U.S. Postal Service  
CERTIFIED MAIL RECEIPT**  
(Domestic Mail Only; No Insurance Coverage Provided)

Postage	\$ 3.95
Certified Fee	2.10
Return Receipt Fee (Endorsement Required)	1.50
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 7.55</b>

UNIT ID: 0708  
 Postmark Here  
 Clerk: KCR5HQ  
 08/31/01

Recipient's Name (Please Print Clearly) (to be completed by mailer)  
**Cecil J. Rhodes**  
 Street, Apt. No., or PO Box No.  
**500 W. Texas - Suite 1190**  
 City, State, ZIP+4  
**Midland TX 79701-4280**

PS Form 3800, February 2000 See Reverse for Instructions



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

SEP 27 PM 1:47

**GARY E. JOHNSON**  
Governor  
**Jennifer A. Salisbury**  
Cabinet Secretary

**Lori Wrotenbery**  
Director  
Oil Conservation Division

September 10, 2001

Henry Petroleum L.P.  
3525 Andrews Highway  
Suite 200  
Midland, Texas 79703

**SEP 13 2001**

Mr. Roy R. Johnson

Re: Form C-108  
South Justis Unit Nos. B-12 & B-13  
Section 11, T-25 South, R-37 East, NMPM,  
Lea County, New Mexico

Dear Mr. Johnson:

This letter acknowledges the receipt of your administrative application dated August 31 2001, to convert the South Justis Unit Nos. B-12 and B-13 to injection within the South Justis Unit Waterflood Project. The Division received your application on September 5, 2001. Our preliminary review indicates that the information provided in the application is not sufficient to process the administrative order. The following information is necessary:

- ✓ a) **Administrative Application Checklist (Enclosed)**  
(Note: Current Division procedure for processing administrative applications requires that this checklist be submitted with each application.)
- ✓ b) **Publication Notice will have to be re-published. Injection interval for the SJU No. B-13 is not described correctly in the advertisement. In addition, the Division's address is not described correctly. Our current address is:**

✓ **Oil Conservation Division**  
**1220 South Saint Francis Drive**  
**Santa Fe, New Mexico 87504**

Since the submitted information is insufficient to review, the application was **Ruled Incomplete** on September 10, 2001. Please submit the above stated information by September 17, 2001.

*Henry Petroleum, L.P.*  
*Administrative Application Letter*  
*September 10, 2001*  
*Page 2*

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The Division cannot proceed with your application until the required information is submitted. Upon receipt, the division will continue to process your application. The additional information can be faxed, or mailed to the Division. If the necessary information is not submitted, your application will be returned to you.

If you have any questions, please contact me in Santa Fe, at (505) 476-3466.

Sincerely,

A handwritten signature in black ink, appearing to read "David Catanach", with a horizontal line extending to the right.

David Catanach  
Petroleum Engineer

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.**

Roy R. Johnson \_\_\_\_\_ Roy R. Johnson \_\_\_\_\_ Regulatory Tech. \_\_\_\_\_ 09/20/01  
 Print or Type Name Signature Title Henry Petroleum LP Date

roy@henrypetroleum.com \_\_\_\_\_  
 e-mail Address

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 September 16 2001 and ending with the issue dated

September 16 2001

*Kathi Bearden by JJA*

Publisher

Sworn and subscribed to before

me this 17th day of

September 2001

*Jodi Benson*

Notary Public.

My Commission expires  
October 18, 2004  
(Seal)

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.

LEGAL NOTICE  
September 16, 2001

This is to advise all parties concerned, HENRY PETROLEUM LP intends to convert from producer to injector status the South Justis Unit (SJU) B12 and B13. These wells are included in the SJU Waterflood Project which currently has over 90 active water injection wells.

South Justis Unit-B-Well #12  
1650' FNL & 2310' FWL Unit Letter F  
Section 11, R-37-E, T-25-S  
Lea County, NM

South Justis Unit-B-Well #13  
2160' FSL & 2310' FWL Unit Letter K  
Section 11, R-37-E, T-25-S  
Lea County, NM

Injection will be in the Unitized interval of the Blinbry-Tubb/Drinkard at a depth of 5114' to 6113' on the B-12 and 5144' to 6117' on the B-13. The maximum expected injection rate is 1000 BWPD at a maximum injection pressure of 1020 psi. Questions can be addressed to:

Henry Petroleum LP  
3525 Andrews Highway - Suite 200  
Midland TX 79703-5000  
Attention: Mr. Van Temple  
Phone #(915) 694-3000

Interested parties must file objections or request for hearing within 15 days of this notice to the:

Oil Conservation Division  
1220 South Saint Francis Drive  
Santa Fe, New Mexico 87504

#18422

67100199000      02550059

Henry Petroleum LP  
3525 Andrews Highway  
MIDLAND, TX 79703



**HENRY**  
PETROLEUM LP

TELECOPIER COVER LETTER

DATE: 9-20-01

Please deliver the following pages immediately:

TO: David Catanach

COMPANY: NM Energy, Minerals and HRD

FAX NO.: 1-505-476-3462

FROM: Roy R. Johnson - Henry Petroleum LP

Total Number of Pages (including cover letter): 5

IF YOU DO NOT RECEIVE ALL THE PAGES, PLEASE CALL THE FOLLOWING NUMBER AS SOON AS POSSIBLE: (915) 694-3000.

TELECOPIER OPERATOR FOR THIS TRANSMITTAL: \_\_\_\_\_

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

THIS FACSIMILE MAY CONTAIN CONFIDENTIAL INFORMATION WHICH ALSO MAY BE LEGALLY PRIVILEGED AND WHICH IS INTENDED ONLY FOR THE USE OF THE ADDRESSEE(S) NAMED ABOVE. IF YOU ARE NOT THE INTENDED RECIPIENT OF THIS FACSIMILE, OR THE EMPLOYEE OR AGENT RESPONSIBLE FOR DELIVERING IT TO THE INTENDED RECIPIENT, YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION OR COPYING OF THIS FACSIMILE MAY BE STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS FACSIMILE IN ERROR, PLEASE IMMEDIATELY NOTIFY US BY TELEPHONE AND RETURN THE ORIGINAL FACSIMILE TO US AT THE ADDRESS BELOW VIA THE UNITED STATES POSTAL SERVICE. THANK YOU.



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**GARY E. JOHNSON**  
Governor  
**Jennifer A. Salisbury**  
Cabinet Secretary

**Lori Wrotenbery**  
Director  
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September 10, 2001

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3525 Andrews Highway  
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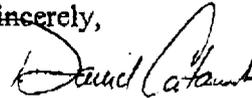
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*Administrative Application Letter*  
*September 10, 2001*  
*Page 2*

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Sincerely,



David Catanach  
Petroleum Engineer

DATE IN	SUBPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.
---------	----------	----------	-----------	------	---------

ABOVE THIS LINE FOR DIVISION USE ONLY

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



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

Roy R. Johnson  
 Print or Type Name

*Roy R. Johnson*  
 Signature

Regulatory Tech.  
 Title Henry Petroleum LP

09/20/01  
 Date

roy@henrypetroleum.com  
 e-mail Address



*New Mexico Oil Conservation Division---Engineering Bureau  
Administrative Application Process Documentation*

**Part I**

Date Application Received: 9-5-01

Date of Preliminary Review: 9-10-01  
(Note: Must be within 10-days of received date)

Results: \_\_\_\_\_ Application Complete  Application Incomplete

Date Incomplete Letter Sent: 9-10-01

Deadline to Submit Requested Information: 9-17-01

Date Additional Information Submitted: 9-20-01

RBDMS Updated:  Yes \_\_\_\_\_ No

---

**Part II**

Phone Call Date: 9-18-01  
(Note: Only applies if requested data is not submitted within the 7-day deadline)

Phone Log Completed?  Yes \_\_\_\_\_ No

Date Application Processed: \_\_\_\_\_

Date Application Returned: \_\_\_\_\_  
(Note: Only as a last resort & only after repeated attempts by the Division to obtain the necessary information to process the application)

OIL CONSERVATION DIVISION

TELEPHONE LOG

COMPANY NAME: Henry Petter

PROPERTY NAME: STU

RESPONSIBLE OFFICIAL: Rosy Johnson

APPLICATION NUMBER: \_\_\_\_\_

NAME OF ENGINEER: Citrus

DATE CALLED: 8/19/61

TIME CALLED: \_\_\_\_\_

NOTES: