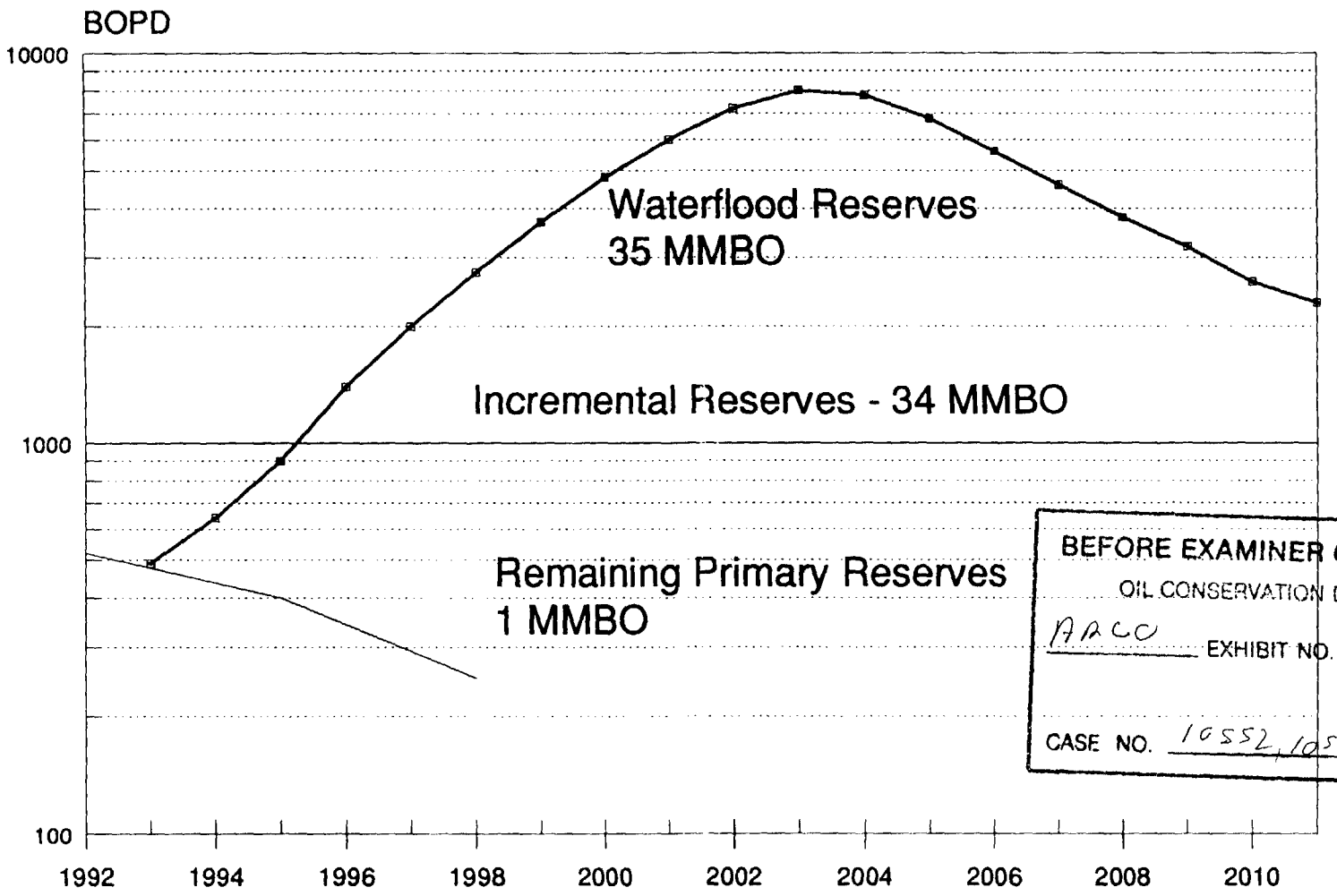
SOUTH JUSTIS UNIT
PERFORMANCE FORECAST



BEFORE EXAMINER CATANACH
OIL CONSERVATION DIVISION
APCO EXHIBIT NO. 19
CASE NO. 10552, 10553, 10554

RSP/EEG SJUOILR 09/14/92

BEFORE EXAMINER CATANACH
OIL CONSERVATION DIVISION
Arco EXHIBIT NO. 22
CASE NO. 10552, 10553, 10554

ARCO OIL AND GAS COMPANY
APPLICATION FOR AUTHORIZATION TO INJECT WATER FOR SECONDARY RECOVERY

SOUTH JUSTIS UNIT
LEA COUNTY, NEW MEXICO

AUGUST 24, 1992

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

FORM C-108
Revised 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: [X] Secondary Recovery [ ] Pressure Maintenance [ ] Disposal [ ] Storage
Application qualifies for administrative approval? [ ] yes [ ] no

II. Operator: APCO OIL AND GAS COMPANY

Address: P. O. BOX 1610, MIDLAND, TEXAS 79702

Contact party: RICHARD S. PRENTICE Phone: 915-688-5355

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

IV. Is this an expansion of an existing project? [ ] yes [X] no
If yes, give the Division order number authorizing the project _____.

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

* VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail. 20 P+A's

VII. Attach data on the proposed operation, including:

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

*VIII. Attach appropriate 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 source known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

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

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

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

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

XIV. Certification

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

Name: RICHARD S. PRENTICE Title SR. O/A ENGINEER

Signature: Richard S. Prentice Date: August 24, 1992

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

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division

ILLEGIBLE

III. WELL DATA

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

(1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.

(2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

(3) A description of the tubing to be used including its size, lining material, and setting depth.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

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

(1) The name of the injection formation and, if applicable, the field or pool name.

(2) The injection interval and whether it is perforated or open-hole.

(3) State if the well was drilled for injection or, if not, the original purpose of the wel...

(4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.

(5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

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

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

(1) The name, address, phone number, and contact party for the applicant;

(2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;

(3) ... formation name and depth with expected maximum injection rates and pressures; and

(4) ... notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

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

ILLEGIBLE

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

EXHIBIT III-A

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Exhibit IIIA
Well Data for New Unit Wells

Well #	Location	Sec-T-R	Phase	Type	Current Status
SJU Tract B #110	990' FNL & 1650' FWL (C)	11-25S, 37E	II	New WIW	
SJU Tract B #140	990' FSL & 2310' FWL (N)	11-25S, 37E	II	Convert to WIW	Active Bly
(ARCO's J A. Stuart #1					
SJU Tract B #150	330' FNL & 2310' FWL (C)	14-25S, 37E	II	Convert to WIW	Active
(ARCO's Stuart A WN #2)					Bly & Tb/Dkd
SJU Tract C #120	1500' FNL & 1550' FEL (G)	11-25S, 37E	II	New WIW	
SJU Tract C #130	2500' FSL & 1650' FEL (J)	11-25S, 37E	II	New WIW	
SJU Tract C #140	1200' FSL & 1450' FEL (O)	11-25S, 37E	II	New WIW	
SJU Tract C #150	200' FNL & 1450' FEL (B)	14-25S, 37E	II	New WIW	
SJU Tract C #160	1500' FNL & 2250' FEL (G)	14-25S, 37E	I	New WIW	
SJU Tract C #170	2450' FSL & 2250' FEL (J)	14-25S, 37E	I	New WIW	
SJU Tract C #180	1000' FSL & 2350' FEL (O)	14-25S, 37E	I	New WIW	
SJU Tract C #190	100' FNL & 2350' FEL (B)	23-25S, 37E	I	New WIW	
SJU Tract C #200	1200' FNL & 2350' FEL (G)	23-25S, 37E	I	New WIW	
SJU Tract C #202	2500' FNL & 2350' FEL (G)	23-25S, 37E	I	New WIW	
SJU Tract D #120	1500' FNL & 50' FEL (H)	11-25S, 37E	II	New WIW	
SJU Tract D #130	2600' FSL & 330' FEL (I)	11-25S, 37E	II	New WIW	
SJU Tract D #140	1300' FSL & 330' FEL (P)	11-25S, 37E	II	New WIW	
SJU Tract D #150	100' FNL & 100' FEL (A)	14-25S, 37E	II	New WIW	
SJU Tract D #160	1700' FNL & 1100' FEL (H)	14-25S, 37E	I	New WIW	
SJU Tract D #170	2250' FSL & 1050' FEL (I)	14-25S, 37E	I	New WIW	
SJU Tract D #180	1050' FSL & 1050' FEL (P)	14-25S, 37E	I	New WIW	
SJU Tract D #190	200' FNL &1100' FEL (A)	23-25S, 37E	I	New WIW	
SJU Tract D #200	1450' FNL & 1000' FEL (H)	23-25S, 37E	I	New WIW	
SJU Tract D #210	2500' FSL & 900' FEL (I)	23-25S, 37E	I	New WIW	
SJU Tract D #212	1400' FSL & 1050' FEL (I)	23-25S, 37E	I	New WIW	
SJU Tract D #220	200' FSL & 1150' FEL (P)	23-25S, 37E	I	New WIW	
SJU Tract D #230	1150' FNL & 950' FEL (A)	26-25S, 37E	I	New WIW	
SJU Tract D #240	2200' FNL & 1000' FEL (H)	26-25S, 37E	I	New WIW	
SJU Tract E #130	2500' FSL & 1200' FWL (L)	12-25S, 37E	II	New WIW	
SJU Tract E #132	1300' FSL & 1150' FWL (L)	12-25S, 37E	II	New WIW	
SJU Tract E #150	200' FNL & 1200' FWL (D)	13-25S, 37E	II	New WIW	
SJU Tract E #160	1500' FNL & 100' FWL (E)	13-25S, 37E	I	New WIW	
SJU Tract E #162	1650' FNL & 1150' FWL E)	13-25S, 37E	I	New WIW	
SJU Tract E #170	2300' FSL & 230' FWL (L)	13-25S, 37E	I	New WIW	
SJU Tract E #180	1050' FSL & 400' FWL (M)	13-25S, 37E	I	New WIW	
SJU Tract E #190	200' FNL & 250' FWL (D)	24-25S, 37E	I	New WIW	
SJU Tract E #192	1350' FNL & 200' FWL (D)	24-25S, 37E	I	New WIW	
SJU Tract E #200	2500' FNL & 1250' FWL (E)	24-25S, 37E	I	New WIW	
SJU Tract E #210	2500' FSL & 150' FWL (L)	24-25S, 37E	I	New WIW	
SJU Tract E #212	1350' FSL & 250' FWL (L)	24-25S, 37E	I	New WIW	
SJU Tract E #220	10' FSL & 300' FWL (M)	24-25S, 37E	I	New WIW	
SJU Tract E #222	1300' FSL & 1250' FWL (M)	24-25S, 37E	I	New WIW	
SJU Tract E #230	1100' FNL & 250' FWL(D)	25-25S, 37E	I	New WIW	
SJU Tract E #240	2250' FNL & 300' FWL (E)	25-25S, 37E	I	New WIW	
SJU Tract E #250	1700' FSL & 300' FWL (L)	25-25S, 37E	I	New WIW	
SJU Tract E #260	250' FSL & 230' FWL(M)	25-25S, 37E	I	New WIW	
SJU Tract E #270	1100' FNL & 300' FWL (D)	36-25S, 37E	II	New WIW	
SJU Tract F #120	1450' FNL & 1350' FWL (F)	12-25S, 37E	II	New WIW	

C-108
Exhibit IIIA
Well Data for New Unit Wells

Well #	Location	Sec-T-R	Phase	Type	Current Status
SJU Tract F #150	100' FNL & 2420' FWL (C)	13-25S, 37E	II	New WIW	
SJU Tract F #160	1650' FNL & 2500' FWL (F)	13-25S, 37E	II	New WIW	
SJU Tract F #170	2150' FSL & 1400' FWL (K)	13-25S, 37E	I	New WIW	
SJU Tract F #180	1150' FSL & 1480' FWL (N)	13-25S, 37E	I	New WIW	
SJU Tract F #182	1150' FSL & 2550' FWL (N)	13-25S, 37E	I	New WIW	
SJU Tract F #190	10' FNL & 1450' FWL (C)	24-25S, 37E	I	New WIW	
SJU Tract F #192	1200' FNL & 1450' FWL (C)	24-25S, 37E	I	New WIW	
SJU Tract F #194	1200' FNL & 2480' FWL (C)	24-25S, 37E	I	New WIW	
SJU Tract F #200	2350' FNL & 2350' FWL (F)	24-25S, 37E	I	New WIW	
SJU Tract F #210	1350' FSL & 2400' FWL (K)	24-25S, 37E	I	New WIW	
SJU Tract F #220	200' FSL & 1350' FWL (N)	24-25S, 37E	I	New WIW	
SJU Tract F #230	990' FNL & 1650' FWL (C)	25-25S, 37E	I	Convert to WIW	Active Bly
(ARCO's I. Wimberley #17)					
SJU Tract F #240	2500' FNL & 1500' FWL (F)	25-25S, 37E	I	New WIW	
SJU Tract F #250	1650' FSL & 1650' FWL (K)	25-25S, 37E	I	New WIW	
SJU Tract F #260	100' FSL & 1500' FWL (N)	25-25S, 37E	I	New WIW	
SJU Tract F #270	1280' FNL & 1400' FWL (C)	36-25S, 37E	II	New WIW	
SJU Tract F #272	1300' FNL & 2600' FWL (C)	36-25S, 37E	II	New WIW	
SJU Tract F #280	2450' FNL & 1450' FWL (F)	36-25S, 37E	II	New WIW	
SJU Tract F #282	2550' FNL & 2580' FWL (F)	36-25S, 37E	II	New WIW	
SJU Tract F #290	1500' FSL & 1400' FWL (K)	36-25S, 37E	II	New WIW	
SJU Tract G #170	2250' FSL & 2550' FEL (J)	13-25S, 37E	II	New WIW	
SJU Tract G #172	2300' FSL & 1450' FEL (J)	13-25S, 37E	II	New WIW	
SJU Tract G #180	1150' FSL & 1450' FEL (O)	13-25S, 37E	II	New WIW	
SJU Tract G #182	50' FSL & 2600' FEL (O)	13-25S, 37E	I	New WIW	
SJU Tract G #184	50' FSL & 1450' FEL (O)	13-25S, 37E	II	New WIW	
SJU Tract G #190	1300' FNL & 1350' FEL (B)	24-25S, 37E	I	New WIW	
SJU Tract G #200	2630' FNL & 1450' FEL (G)	24-25S, 37E	I	New WIW	
SJU Tract G #210	1450' FSL & 1450' FEL (J)	24-25S, 37E	I	New WIW	
SJU Tract G #220	120' FSL & 2550' FEL (O)	24-25S, 37E	I	New WIW	
SJU Tract G #222	150' FSL & 1450' FEL (O)	24-25S, 37E	I	New WIW	
SJU Tract G #230	990' FNL & 2308' FEL (B)	25-25S, 37E	I	Convert to WIW	Active Fuss
(ARCO's State Y #5)					
SJU Tract G #240	2250' FNL & 2450' FEL (G)	25-25S, 37E	I	New WIW	
SJU Tract G #250	1500' FSL & 2310' FEL (J)	25-25S, 37E	I	New WIW	
SJU Tract G #260	330' FSL & 2350' FEL (O)	25-25S, 37E	I	New WIW	
SJU Tract G #262	150' FSL & 1350' FEL (O)	25-25S, 37E	I	New WIW	
SJU Tract G #270	1100' FNL & 1350' FEL (B)	36-25S, 37E	II	New WIW	
SJU Tract G #280	2500' FNL & 1350' FEL (G)	36-25S, 37E	II	New WIW	
SJU Tract G #290	1450' FSL & 2610' FEL (J)	36-25S, 37E	II	New WIW	
SJU Tract G #292	1500' FSL & 1350' FEL (J)	36-25S, 37E	II	New WIW	
SJU Tract H #200	2600' FNL & 100' FEL (H)	24-25S, 37E	II	New WIW	
SJU Tract H #210	1400' FSL & 330' FEL (I)	24-25S, 37E	II	New WIW	
SJU Tract H #220	330' FSL & 330' FEL (P)	24-25S, 37E	II	Convert to WIW	Active
(Texaco's Coates C #23)					Bly & Tb/Dkd
SJU Tract H #230	990' FNL & 990' FEL (A)	25-25S, 37E	I	Convert to WIW	Inactive
(ARCO's State Y #9)					Montoya
SJU Tract H #232	1100' FNL & 150' FEL (A)	25-25S, 37E	II	New WIW	
SJU Tract H #240	2310' FNL & 990' FEL (H)	25-25S, 37E	I	Convert to WIW	Active
(ARCO's State Y #10)					Tb/Dkd
SJU Tract H #242	2310' FNL & 150' FEL (H)	25-25S, 37E	II	New WIW	

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Exhibit IIIA
Well Data for New Unit Wells

Well #	Location	Sec-T-R	Phase	Type	Current Status
SJU Tract H #250	1650' FSL & 330' FEL (I)	25-25S, 37E	I	Convert to WIW	Active Bly
(Meridian's Carlson Fed A #5)					
SJU Tract H #260	330' FSL & 660' FEL (P)	25-25S, 37E	I	Convert to WIW	Active Fuss
(ARCO's Carlson B-25 Fed #6)					
SJU Tract H #270	1100' FNL & 150' FEL (A)	36-25S, 37E	II	New WIW	
SJU Tract H #280	2500' FNL & 150' FEL (H)	36-25S, 37E	II	New WIW	
SJU Tract I #260	330' FSL & 330' FEL (M)	30-25S, 38E	II	Convert to WIW	Active
(MW Petroleum's St. AJ #6)					Bly & Fuss
SJU Tract C #131	1750' FSL & 2150' FEL (J)	11-25S, 37E	II	New Producer	
SJU Tract F #14	450' FSL & 1850' FWL (N)	12-25S, 37E	II	New Producer	
SJU Tract G #15	900' FNL & 2000' FEL (B)	13-25S, 37E	II	New Producer	
SJU Tract H #20	1950' FNL & 750' FEL (H)	24-25S, 37E	II	New Producer	
SJU Tract G #251	2150' FSL & 1400' FEL (I)	25-25S, 37E	I	New Producer	
SJU Tract B #191	990' FNL & 1980' FWL (C)	23-25S, 37E	I	New WSW	
SJU Tract C #211	1980' FSL & 2300' FEL (J)	23-25S, 37E	I	New WSW	
SJU Tract E #191	660' FNL & 990' FWL (D)	24-25S, 37E	I	Recomplete to WSW	Inactive Fuss
(ARCO's Wimberly WN #6)					

EXHIBIT III-B

INJECTION WELL DATA SHEET

ARCO OIL AND GAS COMPANY (OPERATOR) SOUTH JUSTIS UNIT (LEASE)

ELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
TYPICAL NEW INJECTION WELL				

Schematic

SEE ATTACHED WELLBORE DIAGRAM

Tabular Data

Surface Casing -1000'

Size 8-5/8" Cemented with 800 sx.

TOC surface feet determined by circ

Hole size 12-1/4"

Intermediate Casing

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 4-1/2" Cemented with 1400 sx.

TOC surface feet determined by circ

Hole size 7-7/8"

Total depth 6200'

Injection interval

5100 feet to 6100 feet - (Perforated)
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with PVC (material) set in a

Otis Interlock (brand and model) packer at 5000 feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Blinebry and Tubb/Drinkard
2. Name of Field or Pool (if applicable) _____
3. Is this a new well drilled for injection? /X/ Yes /_/ No

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

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

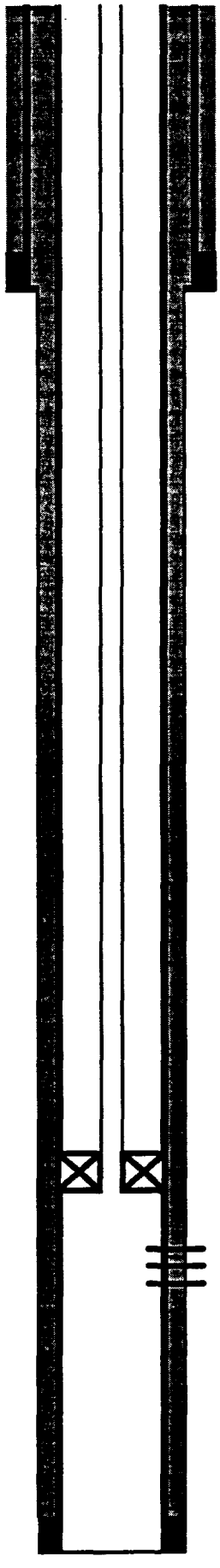
Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Seven Rivers-Queen 2700', Glorieta 4700', Paddock 4800', Abo 6300'

Fusselman 6600', Montoya 6800', McKee 7000', Ellenburger 8100'

WELLBORE SCHEMATIC

South Justis Unit WIW

ARCO Oil and Gas Company



12-1/4" hole.
8-5/8" casing @ 1000'.
Set w/800 sxs cmt. Circ.

2-3/8" PVC tubing @ 5000'
Otis Interlock Packer @ 5000'

Injection perfs @ 5100' to 6100'

7-7/8" hole.
4-1/2" csg @ 6200'.
Set w/1400 sxs cmt. Circ.

TD @ 6200'.

EXHIBIT III-C

INJECTION WELL DATA SHEET

OPERATOR	LEASE			
ARCO Oil and Gas Company	South Justis Unit			
WELL NO.	**FOOTAGE LOCATION**	**SECTION**	**TOWNSHIP**	**RANGE**
B #140	990' FSL & 2310' FWL (N)	Sec. 11,	T-25S,	R-37E

Schematic

Tabular Data

Surface Casing

Size 8-5/8" Cemented with 600 sx.

TOC Surface feet determined by Circ

Hole size 12-1/4

Intermediate Casing

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 5-1/2" Cemented with 525 sx.

TOC 2095 feet determined by Measured

Hole size 7-7/8"

Total depth 6240'

Injection interval

5100' feet to 6100' feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with PVC (material) set in a

Otis Interlock (brand and model) packer at 5000 feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Blinebry Tubb/Drinkard

2. Name of Field or Pool (if applicable) _____

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

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

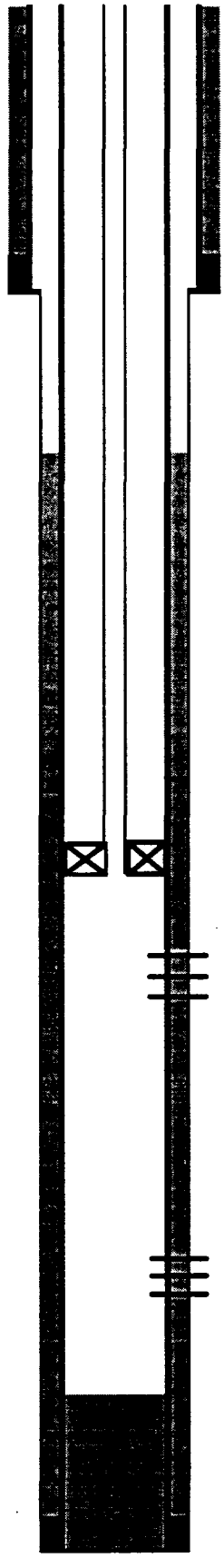
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) See Attached Wellbore Schematic

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   Seven Rivers-Queen 2700', Glorieta 4700', Paddock 4800', Abo 6300',

   Fusselman 6600', Montoya 6800', McKee 7000', Ellenburger 8100'

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
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" PVC tubing @ 5000'
Otis Interlock Packer @ 5000'

Blinebry perfs @ 5174' to 5517'.

Tubb/Drinkard perfs @ 5896' to 6109'

PD @ 6178'

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

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' PBTD: 6178'

CASING RECORD:

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

LOGS:

Date	Company	Log Name
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

INJECTION WELL DATA SHEET

ARCO Oil and Gas Company — South Justis Unit
OPERATOR — LEASE

B #150 — 330' FNL & 2310' FWL — (C) Sec. 14, T-25S, R-37E
WELL NO. — FOOTAGE LOCATION — SECTION — TOWNSHIP — RANGE

Schematic

Tabular Data

Surface Casing

Size 9-5/8" Cemented with 464 sx.

TOC Surface feet determined by Circ

Hole size 12-1/4"

Intermediate Casing

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 7" Cemented with 1195 sx.

TOC 2600 feet determined by TS

Hole size 8-3/4"

Total depth 6250'

Injection interval

5100 feet to 6100 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with PVC (material) set in a

Otis Interlock (brand and model) packer at 5000 feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Blinebry & Tubb/Drinkard

2. Name of Field or Pool (if applicable) _____

3. Is this a new well drilled for injection? /7 Yes /X No

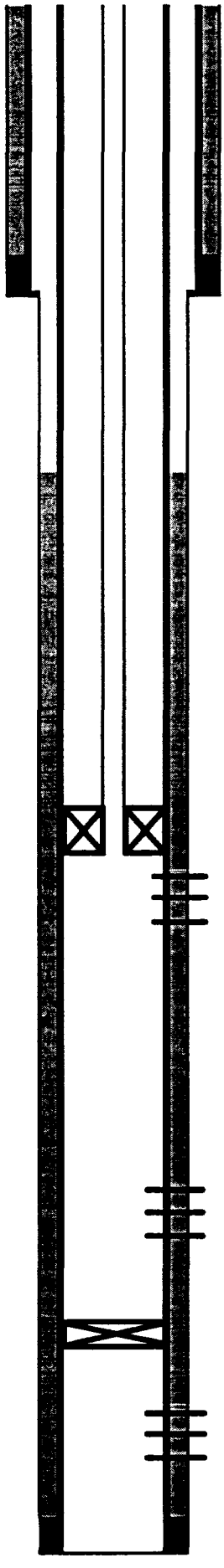
If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) See Attached Wellbore Schematic

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

Seven Rivers-Queen 2700', Glorieta 4700', Paddock 4800', Abo 6300',
Fusselman 6600', Montoya 6800', McKee 7000', Ellenburger 8100'

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
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.

2-3/8" PVC tubing @ 5000'
Otis Interlock Packer @ 5000'

Blinebry Perfs @ 5165' to 5621'.

Tubb/Drinkard Perfs @ 5958' to 6079'.

CIBP @ 6088'.

Drinkard Perfs @ 6098' to 6171'.

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

TD @ 6250'.

SOUTH JUSTIS UNIT "B" #150

WELL NAME: 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' PBTD:

CASING RECORD:

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

LOGS:

Date	Company	Log Name
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

SOUTH JUSTIS UNIT "B" #150

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'.

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

INJECTION WELL DATA SHEET

ARCO Oil and Gas Company (OPERATOR) South Justis Unit (LEASE)

F #230 (WELL NO.) 990' FNL & 1650' FWL (FOOTAGE LOCATION) (C) Sec. 25 (SECTION) T-25S (TOWNSHIP) R-37E (RANGE)

Schematic

Tabular Data

Surface Casing

Size 7-5/8" Cemented with 400 sx.

TOC Surface feet determined by Circ

Hole size 9-7/8"

Intermediate Casing

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 4-1/2" Cemented with 900 sx.

TOC 2005' feet determined by TS

Hole size 6-3/4"

Total depth 6100'

Injection interval

5100' feet to 5400' feet (Perforated)
(perforated or open-hole, indicate which)

5400' 6100' (Open hole)

Tubing size 2-3/8" lined with PVC tubing (material) set in a

Otis Interlock (brand and model) packer at 5000 feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Tubb/Drinkard & Blinebry

2. Name of Field or Pool (if applicable) _____

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

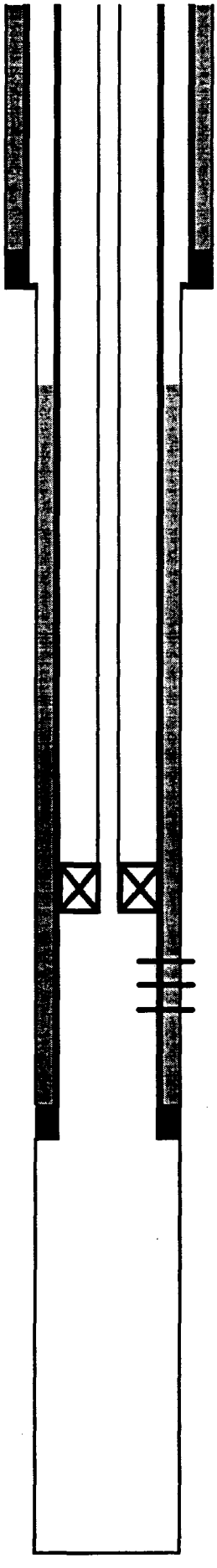
If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) See Attached Wellbore Schematic

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

Seven Rivers-Queen 2700', Glorieta 4700', Paddock 4800', Abo 6300', Fusselman 6600', Montoya 6800', McKee 7000', Ellenburger 8100'

WELLBORE SCHEMATIC



South Justis Unit F #230

(AHC/ARCO Ida Wimberley #17)
990' FNL & 1650' FWL (C)
Sec. 25, T-25S, R-37E, Lea Co., NM
KB 3074'
Spudded 04/08/63
Completed 04/24/63

9-7/8" hole.
7-5/8" casing @ 854'.
Set w/400 sxs cmt. Circ.

TOC @ 2005' by TS.

2-3/8" PVC tubing @ 5000'
Otis Interlock Packer @ 5000'

Blinebry perfs @ 5100' to 5400'.

6-3/4" hole.
4-1/2" csg @ 5499'w/900 sxs cmt.

Present TD @ 5500'

Proposed Deepening to 6100'

Proposed TD @ 6100'.

SOUTH JUSTIS UNIT "F" #230

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

FORMER OPERATOR: AHC/ARCO IDA WIMBERLEY #17

FORMER WELL NAME:

BLM TRACT NUMBER: 51 **API NUMBER:** 3002520014

SPUD DATE: 8/27/58

KB: 3074' GL: TD: 5500' PBTD: 5455'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
7-5/8"			854'	400 sxs cmt, circ
4-1/2"			5499'	900 sxs cmt, (TOC @ 2005'-TS)

LOGS:

Date	Company	Log Name
4/23/63	Schlumberger	Sonic, LL, MLL

DST's:

INITIAL COMPLETION: Perf'd 5356-5432', Blinebry, Acidized w/500 gal 15% NE acid, frac'd w/20,000 gal refined oil & 16,000# 20-40 sd IP: Flwd at rate of 241 BOPD, Gravity 36.4° API, GOR 1230 SCF/STB

INITIAL COMPLETION DATE: 4/24/63

TREATMENTS AND WORKOVERS

5-7-68 Added perfs from 4964-5343', Acidized perfs from 4964-5432' w/2000 gal 15% NE acid. Frac'd perfs w/120,000 gal gelled brine & 180,000# 20-40 sand

10-6-85 Status changed from flowing to pumping oil well

SOUTH JUSTIS UNIT "F" #230

10-24-85 Repaired parted 7-5/8" casing located 6' from surface. BP in 4-1/2" casing knocked loose and pushed to 5455'.

INJECTION WELL DATA SHEET

OPERATOR	LEASE
ARCO Oil and Gas Company	South Justis Unit

WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
G #230	990' FNL & 2308' FEL (B)	Sec. 25,	T-25S,	R-37E

Schematic

Tabular Data

Surface Casing

Size 13-3/8" Cemented with 600 sx.

TOC Surface feet determined by Circ

Hole size 17-1/2"

Intermediate Casing

Size 9-5/8" Cemented with 1609 sx.

TOC 685 feet determined by TS

Hole size 12-1/4"

Long string

Size 7" Cemented with 430 sx.

TOC 3175 feet determined by TS

Hole size 8-3/4"

Total depth 6872'

Injection interval

5100 feet to 6100 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with PVC (material) set in a

Otis Interlock (brand and model) packer at 5000 feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Blinebry & Tubb/Drinkard

2. Name of Field or Pool (if applicable) _____

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

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

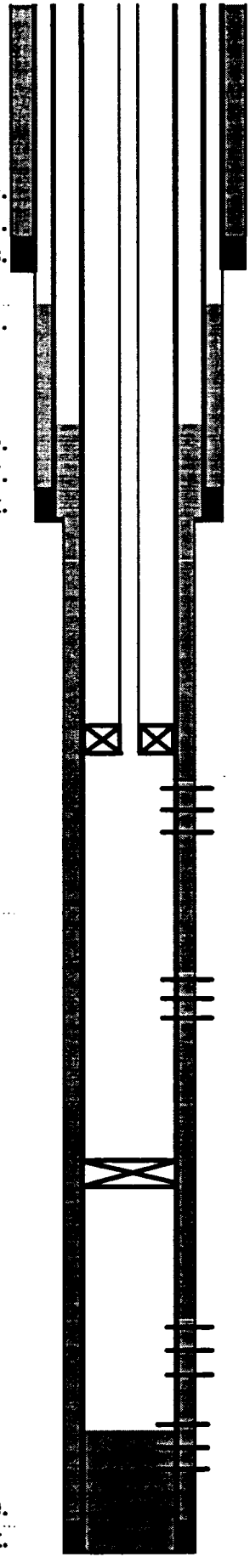
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) See Attached Wellbore Schematic

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   Seven Rivers-Queen 2700', Glorieta 4700', Paddock 4800', Abo 6300',

   Fusselman 6600', Montoya 6800', McKee 7000', Ellenburger 8100'

WELLBORE SCHEMATIC



South Justis Unit G #230

(ARCO State Y #5)
990' FNL & 2308' FEL (B)
Sec 25, T-25S, R-37E, Lea Co., NM
KB-3075'
Spudded 01/26/59
Completed 03/02/59

17-1/2" Hole.
13-3/8" casing @ 600'.
Set w/600 sxs cmt. Circ.

TOC @ 685' by TS.

12-1/4" Hole.
9-5/8" casing @ 3329'.
Set w/1609 sxs cmt.

TOC @ 3175' by TS.

2-3/8" PVC tubing @ 5000'
Otis Interlock Packer @ 5000'

Blinebry & Tubb/Drinkard Perfs @ 5100' to 6100'

Sqzd Drinkard Perfs @ 5870' to 5896'

Plug @ 6200'

Fusselman Perfs @ 6766' to 6780'.

Sqzd Fusselman Perfs @ 6785' to 6838'

8-3/4" hole.
7" csg @ 6872' w/430 sxs cmt.

PBD @ 6789'
TD @ 6872'.

SOUTH JUSTIS UNIT "G" #230

LOCATION: 990' FNL & 2308' FEL (B), SEC. 25, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: STATE "Y" #5

BLM TRACT NUMBER: 31 **API NUMBER:** 3002511773

SPUD DATE: 1/26/59

KB: 3075' GL: TD: 6872' PBTD: 6789'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			600'	600 sxs cmt, circ
9-5/8"			3329'	1609 sxs cmt, (TOC @ 685 - TS)
7"			6872'	430 sxs cmt, (TOC @ 3175' - TS)

LOGS:

Date	Company	Log Name
2/25/59	Schlumberger	GR-N, ML

DST's:

1	5786-5822'	Fusselman	Oil to surface

INITIAL COMPLETION: IP 367 BOPD, A/1000, perfs 6798-6838'
IP 183 BOPD, MA/1000, perfs 5870-96'

INITIAL COMPLETION DATE: 3/2/59

TREATMENTS AND WORKOVERS

7-76 Squeezed all perfs in Drinkard & Fusselman

7-76 Perf'd 6766-6780' (Fuss), IP 100 BOPD (swbg) Est. WOC @ 3730'

INJECTION WELL DATA SHEET

OPERATOR	LEASE			
ARCO OIL AND GAS COMPANY	SOUTH JUSTIS UNIT			
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
H #220	330' FSL & 330' FEL (P),	Sec. 24,	T-25S,	R-37E

Schematic

Tabular Data

Surface Casing

Size 13-3/8" Cemented with 550 sx.

TOC surface feet determined by circ

Hole size 17-1/2"

Intermediate Casing

Size 9-5/8" Cemented with 1100 sx.

TOC 590 feet determined by TS

Hole size 12-1/4"

Long string

Size 7" Cemented with 700 sx.

TOC 2185 feet determined by TS

Hole size 8-3/4"

Total depth 5950'

Injection interval

5100 feet to 6100 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with PVC tubing (material) set in a

Otis Interlock packer (brand and model) packer at 5000 feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Tubb/Drinkard & Blinebry

2. Name of Field or Pool (if applicable) _____

3. Is this a new well drilled for injection? _X_ Yes _X_ No

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

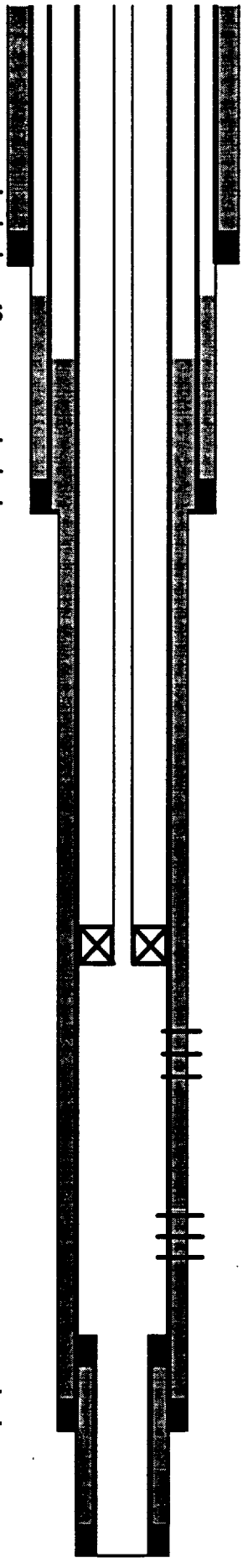
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) See Attached Wellbore Schematic

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

   Seven Rivers-Queen 2700', Glorieta 4700', Paddock 4800', Abo 6300',

   Fusselman 6600', Montoya 6800', McKee 7000', Ellenburger 8100'

WELLBORE SCHEMATIC



South Justis Unit H #220

(Texaco A. B. Coates C #23)
330' FSL & 330' FEL (P)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3085'
Spudded 08/04/60
Completed 10/16/60

17-1/2" Hole.
13-3/8" casing @ 535'.
Set w/550 sxs cmt. Circ.

TOC @ 590' by TS

TOC @ 2185' by TS

12-1/4" Hole.
9-5/8" casing @ 2366'.
Set w/1100 sxs cmt.

2-3/8" PVC tubing @ 5000'
Otis Interlock Packer @ 5000'

Blinebry Perfs @ 5192' to 5480'

Tubb/Drinkard Perfs @ 5700' to 5924'

Proposed 4-1/2" Liner @ 5800' to 6100'
Present PBD @ 5945'
Present TD @ 5950'.

8-3/4" hole.
7" csg @ 5950' w/700 sxs cmt.

Proposed TD @ 6100'

SOUTH JUSTIS UNIT "H" #220

LOCATION: 330' FSL & 330' FEL (P), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: TEXACO

FORMER WELL NAME: A. B. COATES "C" #23

BLM TRACT NUMBER: 12 **API NUMBER:** 3002511745

SPUD DATE: 8/4/60

KB: 3085' GL: TD: 5950' PBTD: 5945'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			535'	550 sxs cmt, circ
9-5/8"	36#	J-55	2366'	1100 sxs cmt, (TOC @ 590' - TS)
7"	23/29#	J-55/N-80	5950'	700 sxs cmt, (TOC @ 2185' - TS)

LOGS:

Date	Company	Log Name
9/1/60	Schlumberger	GR-N, IES, ML

DST's:

INITIAL COMPLETION: IP Dual - Blinebry (5338-5480'), A/1000, F/10/40
220 BO/1 BW/145 MCF/F
Tubb 5858-5924', A/6000, 177 BO/0 BW/165 MCF/F

INITIAL COMPLETION DATE: 10/16/60

TREATMENTS AND WORKOVERS

11-64 Frac Tubb/Drinkard A/1000, F/20/20, A/1000,
11 BO/53 BW/GOR 3091/P - Prior test: 30 BO/0 BW/P

5-69 Add. Perf - Blinebry 5192-5480', A/1500 F/64/60
63 BO/64 BW/GOR 2818/P
Tubb/Drinkard 5700-5924', A/10,000, 29 BO/4 BW/8690 GOR/P

9-75 Downhole Commingle Blinebry & Tubb/Drinkard

INJECTION WELL DATA SHEET

ARCO Oil and Gas Company — South Justis Unit
OPERATOR — LEASE

H #230 — 990' FNL & 990' FEL (A) — Sec. 25, T-25S, R-37E
WELL NO. — FOOTAGE LOCATION — SECTION — TOWNSHIP — RANGE

Schematic

Tabular Data

Surface Casing

Size 9-5/8" Cemented with 550 sx.

TOC Surface feet determined by Circ

Hole size 12-1/4"

Intermediate Casing

Size 7" Cemented with 1800 sx.

TOC 850 feet determined by TS

Hole size 8-3/4"

Long string

Size 4-1/2 Lnr" Cemented with 70 sx.

TOC 6140 feet determined by Measured

Hole size 6-1/4"

Total depth 6908' (TOL @ 6140')

Injection interval

5100 feet to 6100 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with PVC (material) set in a

Otis Interlock (brand and model) packer at 5000' feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Blinebry & Tubb/Drinkard

2. Name of Field or Pool (if applicable) _____

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

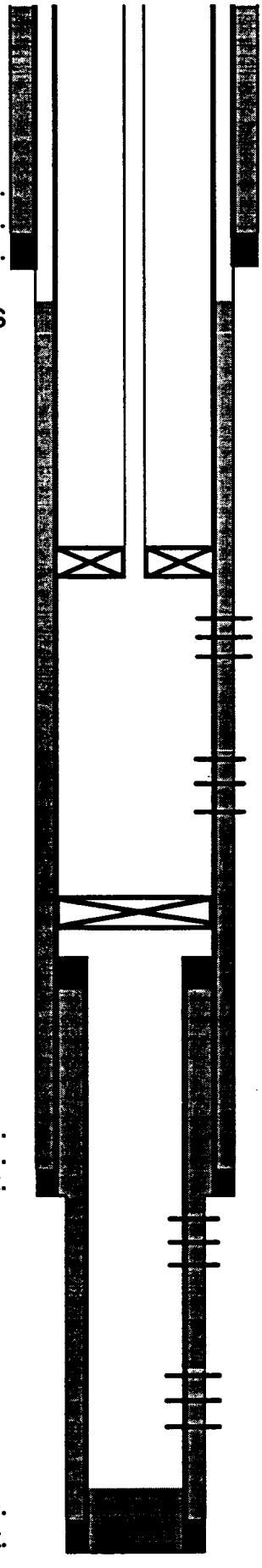
If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) See Attached Wellbore Schematic

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

Seven Rivers-Queen 2700', Glorieta 4700', Paddock 4800', Abo 6300', Fusselman 6600', Montoya 6800', McKee 7000', Ellenburger 8100'

WELLBORE SCHEMATIC



South Justis Unit H #230

(ARCO State Y #9)
990' FNL & 990' FEL (A)
Sec 25, T-25S, R-37E, Lea Co., NM
KB-3081'
Spudded 02/10/61
Completed 03/18/61

12-1/4" Hole.
9-5/8" casing @ 798'.
Set w/550 sxs cmt. Circ.

TOC @ 850' by TS

2-3/8" PVC tubing @ 5000'
Otis Interlock Packer @ 5000'

Blinebry & Tubb/Drinkard Perfs @ 5100' to 6100'

Sqzd Tubb/Drinkard Perfs @ 5816' to 5921'

CIBP @ 6130'

Top of 4-1/2" Liner @ 6140'

8-3/4" Hole.
7" casing @ 6200'.
Set w/1800 sxs cmt.

Sqzd Fusselman Perfs @ 6752' to 6797'

Montoya Perfs @ 6834' to 6880'

6-1/4" Hole.
4-1/2" Liner @ 6905' w/70 sxs cmt.

PBD @ 6890'
TD @ 6908'.

STATE "Y" #9

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

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

BLM TRACT NUMBER: 31 **API NUMBER:** 3002511777

SPUD DATE: 2/10/61

KB: 3081' GL: 3069' TD: 6908' PBTD: 6890'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"	32.3/36#		798'	550 sxs cmt, circ
7"	20/23#		6200'	1800 sxs cmt, circ
4-1/2"	11.6#		6905'	70 sxs cmt, (TOL @ 6140' - TS)

LOGS:

Date	Company	Log Name
3/15/61	Welex	GR-N & Caliper
3/23/61	Welex	CCL
1/23/62	Welex	Differential Temp Svy
8/16/62	Welex	CCL

DST's:

1	4880-4925'	Paddock	Op 1 hr, rec'd 70' GCM, FP 75-85, 30" FSIP-125
2	4926-90'	Paddock	Op 1 hr, rec 35' mud, NS, FP 60-65, 30" FSIP-80
3	6730-55'		Op 1 hr 15 min, GTS 3 min, Oil 25 min, Flwd 28 BOPH-180#, rec 90' oil, 500' XW, FP 870-1218, 30" FSIP-2085
4	6753-6805'	Fusselman	Op 2 hr, GTS 4 min, oil 28 min, rec 90' G&WCM, FP 68-1780, 60" FSIP - 2220

INITIAL COMPLETION: Tubb/Drinkard 5816-5921' - 283 BO, 85 BW, TP 1100#
Fusselman 6752-70', 256 BO, 1 BW, Tp 50#

STATE "Y" #9

INITIAL COMPLETION DATE: 2/10/61

TREATMENTS AND WORKOVERS

3-61	Perf'd Tubb/Drinkard 5816-5921', Frac'd w/15,000 gals RO + 15,000# sd - 134 BPM, MXP 5500#, F 283 BO, 85 BW, CP 1400, TP 1100 Perf'd Fusselman 6752-70' w/4 spf IP F 256 BO, 1 BW, TP 50#
5-61	Acidized Fusselman w/3500 gals gelled acid. Swabbed 53 BO, 0 BW - 6 hrs.
7-61	Installed Kobe pump IPP 80 BOPD
6-62	Added Fusselman perfs 5774-79', 82-84', 86-93' (4 spf). Acidized 6752-97' w/4000 gals 7-1/2% MCA acid. Pumped 3 BO & 1 BW
8-62	Acidized Fusselman w/1000 gals, Frac'd w/17,382 gals lease oil & 8900# 20/40 sand. 10-11 BPM, TP 5400-5500#. Re-perf'd Fusselman w/3-1/2" casing gun 6752-70' w/2 SPF.
10-62	Tubb/Drinkard IP - F 18 BO, 133 MCF, 4 BW, TP 150# Fusselman IP - P 14 BO, 6 BW
12-63	Acidized Tubb/Drinkard 5889-5921' w/1000 gals 15% NEA, TP 2450#, 3.6 BPM. ISIP 1400#, 6 min SIP - vac. IP - F 70 BOPD, 834 MCFD, 10 BW - FTP 750#
5-69	Found holes in Fusselman tbg Tubb/Drinkard - Swbd 12 BO, 4 BW Fusselman - Pmpd 23 BO, 1 BW
7-71	Set FB pkr at 5726 & RBP @ 6000'. Sqzd Tubb/Drinkard perfs 5816-5921' w/76 sxs Class C cmt. Max pressure 3500#. DO cmt 5784-5919'. Acidized Fusselman perfs 6752-70' w/3000 gals 15% NEA. AIR 1.5 BPM, ATP 300#. ISIP 100# vac - 1/2 min. IP - P 20 BO & 22 BW, Tubb/Drinkard P&A'd.
8-76	Perf'd 6748-97' & pumped 300 sx to repair csg leak. Pumped into old Tubb/Drinkard perfs 5816-5918' at 3-1/4 BPM 2000#, Sqzd w/150 sx, Mx P 2800#, DO cmt 5747-5929' & 6665-6890'. PBD 6890'. Perf'd Montoya 6834-38', 6849-56', 6868-80' w/1 spf (26 holes) communicated w/Fuss perfs 6748-97'. Re-sqzd Fusselman perfs & Montoya perfs (6834-38') w/175 sxs cmt, MXP 3500#. DO cmt to 6834'. Acidized Montoya perfs 6834-80' w/1000 gals 15% NEA. No communication. Acidized 6834-80' w/1932 gals 15% NEA, MXP 2800#, 2 BPM. Communicated to 6748-97'. Set pkr @ 6684' & ran Kobe hydraulic
9-76	Pump. IP P 56 BO, 26 MCF, 79 BW
10-79	Removed hydraulic pump. Ran beam P.U. & rod pump. Acidized w/2000 gals 15% NEA. 2 BPM -1000#.
1-88	Acidized Montoya 6834-80' w/1500 gals 15% NEA down casing. IP P 8 BO, 15 BW, 14 MCF

INJECTION WELL DATA SHEET

ARCO Oil and Gas Company (OPERATOR) South Justis Unit (LEASE)

H #240 (WELL NO.) 2310' FNL & 990' FEL (H) (FOOTAGE LOCATION) Sec. 25 (SECTION) T-25S (TOWNSHIP) R-37E (RANGE)

Schematic

Tabular Data

Surface Casing

Size 13-3/8" Cemented with 525 sx.

TOC Surface feet determined by Circ

Hole size 17-1/2"

Intermediate Casing

Size 9-5/8" Cemented with 525 sx.

TOC Surface feet determined by Circ

Hole size 12-1/4"

Long string

Size 7" Cemented with 1125 sx.

TOC Surface feet determined by Circ

Hole size 8-3/4"

Total depth 7510'

Injection interval

5100 feet to 6100 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with PVC (material) set in a

Otis Interlock (brand and model) packer at 5000 feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Blinebry & Tubb/Drinkard

2. Name of Field or Pool (if applicable) _____

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

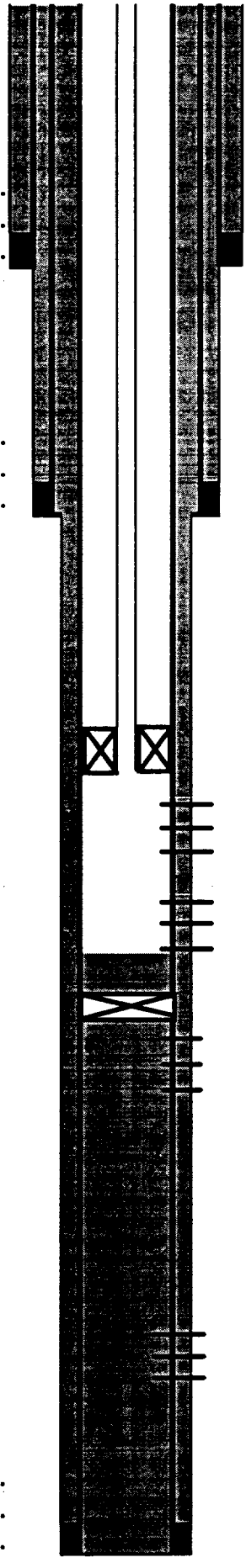
If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) See Attached Wellbore Schematic

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

Seven Rivers-Queen 2700', Glorieta 4700', Paddock 4800', Abo 6300', Fusselman 6600', Montoya 6800', McKee 7000', Ellenburger 8100'

WELLBORE SCHEMATIC



South Justis Unit H #240

(ARCO State Y #10)
2310' FNL & 990' FEL (H)
Sec 25, T-25S, R-37E, Lea Co., NM
KB-3071'
Spudded 12/08/76
Completed 03/11/77

17-1/2" Hole.
13-3/8" casing @ 505'.
Set w/525 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3350'.
Set w/525 sxs cmt. Circ.

2-3/8" PVC tubing @ 5000'
Otis Interlock Packer @ 5000'

Blinebry Perfs @ 5100' to 5600'

Tubb/Drinkard Perfs @ 5711' to 6032'

PBD @ 6763'
CR @ 6784'

Sqzd Fusselman Perfs @ 6836' to 6948'

Sqzd Montoya Perfs @ 7028' to 7087'

8-3/4" hole.
7" csg @ 7510'.
Set w/1125 sxs cmt. Circ.

TD @ 7510'.

SOUTH JUSTIS UNIT "H" #240

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

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: STATE "Y" #10

BLM TRACT NUMBER: 31 **API NUMBER:** 3002525376

SPUD DATE: 12/8/76

KB: 3071' GL: TD: 7510' PBTD: 6764'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"	54.5#	K-55	505'	525 sxs cmt, circ
9-5/8"	36#	K-55	3350'	525 sxs cmt, circ
7"	20/26#	J-55	7510'	1125 sxs cmt, circ

LOGS:

Date	Company	Log Name
1/25/77	Schlumberger	CNL-FDC, DLL, Sonic, Coriband
5/21/80	Schlumberger	CBL

DST's:

1	5270-5460'	IFP 109, 15" 153, ISIP-327, FFP-175, 1'-197, FSIP-524, rec 426' mud
2	5850-5950'	15" IFP-69, ISIP-342, FFP-251, FSIP-525, rec 425' mud

INITIAL COMPLETION: IP Fusselman , P 49 BO, 441 BW, 9 MCF, GOR 184.1

INITIAL COMPLETION DATE: 3/11/77

TREATMENTS AND WORKOVERS

1-77 Perf'd Montoya 7028', 30', 32', 36', 43', 47', 71', 73', 76', 78',84', 87' Acidized w/3000 gals, Swbd 30 BO, 48 BW - 8 1/2 hrs, 6 BO, 26 BW-3 hrs. Perf'd Fusselman 6836', 38', 62', 65', 68', 70', 73', 76', 80',85',88',91',94',99',6905',20',26',31',34',40',42',44',48', A/5000 gals, Set CIBP @ 6990' w/20' cmt

SOUTH JUSTIS UNIT "H" #240

8-77	IP - Fusselman, P 49 BO, 441 BW, 9 MCF, GOR 184.1
9-77	Set CR @ 6913' & pumped 150 sx cmt to sqz Fusselman perfs 6920-48', PBD 6904', Swbd 6836-6905' for 7 hrs. Rec 15 BO, 53 BW, Ran Kobe pump. 1-78 P 7 BO, 28 BW, 54 MCF
5-79	Set CR @ 6790'. Pumped 300 sxs into Fusselman perfs 6836-6905'. DO to CIBP @ 6986'. CO to 7148'. Acidized Montoya w/3500 gals 15%, 95 MCF N2. 9-79 P 0 BO, 184 BW.
5-80	Set CR @ 6764', Sqzd Montoya perfs w/400 sxs. Ran CBL 4500'-surf. Perf 4100'. Pumped 500 sx cmt. CO to 6763'-PBD. Perf Tubb/Drinkard at 5711', 21', 55', 62', 74', 78', 5804', 18', 5913', 44', 59', 86', 6020',32'. A/5000 gals w/500 SCF/BBL N2. F/15,000 gals GBW, 22,500# 100 mesh, 15,000 gals 15%. 7-80 IP P 44 BO, 100 BW, 221 MCF. Tubb/Drinkard
2-91	Ran Schlumberger NGT-GST logs

INJECTION WELL DATA SHEET

OPERATOR	LEASE			
ARCO OIL AND GAS COMPANY	SOUTH JUSTIS UNIT			
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
H #250	1650' FSL & 330' FEL (I),	Sec. 25,	T-25S,	R-37E

Schematic

Tabular Data

Surface Casing

Size 9-5/8" Cemented with 200 sx.

TOC Surface feet determined by circ

Hole size 9-5/8"

Intermediate Casing

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 7" Cemented with 670 sx.

TOC 1370 feet determined by TS

Hole size 8-3/4"

Total depth 5950'

Injection interval

5100 feet to 6100 feet

(perforated or open-hole, indicate which)

Tubing size 2-3/8 lined with PVC tubing (material) set in a

Otis Interlock (brand and model) packer at 5000 feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Tubb/Drinkard & Blinebry

2. Name of Field or Pool (if applicable) _____

3. Is this a new well drilled for injection? ☐ Yes ☒ No

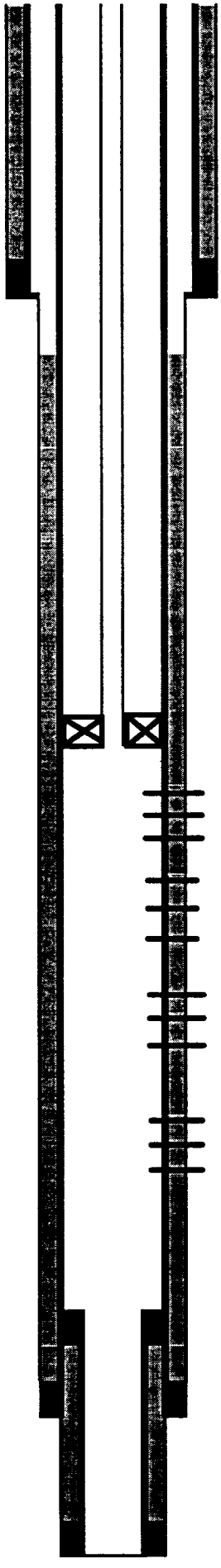
If no, for what purpose was the well originally drilled? Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) See Attached Wellbore Schematic

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

Seven Rivers-Queen 2700', Glorieta 4700', Paddock 4800', Abo 6300', Fusselman 6600', Montoya 6800', McKee 7000', Ellenburger 8100'

WELLBORE SCHEMATIC



South Justis Unit H #250

(Meridian Carlson A Fed #5)
1650' FSL & 330' FEL (I)
Sec. 25, T-25S, R-37E, Lea Co., NM
KB 3070'
Spudded 11/03/59
Completed 12/20/59

12-1/4" hole.
9-5/8" casing @ 853'.
Set w/200 sxs cmt. Circ.

TOC @ 1370' by TS

2-3/8" PVC tubing @ 5000'
Otis Interlock Packer @ 5000'

Squeeze Existing
Blinebry perfs @ 5040' to 5090'.

Add Perfs @ 5100' to 5790'

Tubb/Drinkard Perfs @ 5790' to 5836'
Inactive

Add Perfs @ 5836' to 6100'

8-3/4" hole.
7" csg @ 5945' w/670 sxs cmt.

Proposed 4-1/2" Liner @ 5800' to 6100'
Present PBD @ 5949'
Present TD @ 5950'.

Proposed TD @ 6100'

SOUTH JUSTIS UNIT "H" #250

LOCATION: 1650' FSL & 330' FEL (I), SEC. 25, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: MERIDIAN

FORMER WELL NAME: CARLSON "A" FED #5

BLM TRACT NUMBER: 17 **API NUMBER:** 3002511767

SPUD DATE: 11/3/59

KB: 3070' GL: 3060' TD: 5950' PBTD: 5949'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"			853'	200 sxs cmt, circ
7"			5945'	670 sxs cmt, (TOC @ 1370' - TS)

LOGS:

Date	Company	Log Name
11/30/59	Welex	GR-N, Guard, Forxo

DST's:

INITIAL COMPLETION: IP Blinebry (5040-90'), A/8500, SOF 10,000, F 58 BO, GOR 1635, TP 800#, Gravity 38°
Tubb (5790-5836'), A/500, F 250 BO, GOR 1395, TP 110#, Gravity 38.5°

INITIAL COMPLETION DATE: 12/20/59

TREATMENTS AND WORKOVERS

INJECTION WELL DATA SHEET

OPERATOR	LEASE			
ARCO Oil and Gas Company	South Justis Unit H #260			
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
H #260	330' FSL & 990' FEL (P)	Sec. 25,	T-25S,	R-37E

Schematic

Tabular Data

Surface Casing

Size 9-5/8" Cemented with 750 sx.

TOC Surface feet determined by Circ

Hole size 12-1/4"

Intermediate Casing

Size _____" Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 7" Cemented with 1190 sx.

TOC Surface feet determined by Circ

Hole size 8-3/4"

Total depth 6950'

Injection interval

5100 feet to 6100 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with PVC (material) set in a

Otis Interlock (brand and model) packer at 5000' feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation _____

2. Name of Field or Pool (if applicable) _____

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

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

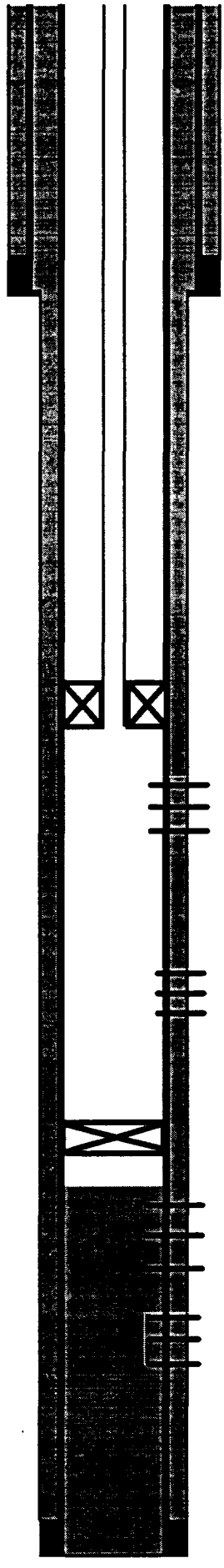
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) See Attached Wellbore Schematic

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

Seven Rivers-Queen 2700', Glorieta 4700', Paddock 4800', Abo 6300',

Fusselman 6600', Montoya 6800', McKee 7000', Ellenburger 8100'

WELLBORE SCHEMATIC



South Justis Unit H #260

(Bruno/ARCO Carlson B-25 Fed #6)
330' FSL & 990' FEL (P)
Sec. 25, T-25S, R-37E, Lea Co., NM
KB 3062'
Spudded 10/19/67
Completed 11/16/67

12-1/4" hole.
9-5/8" casing @ 841'.
Set w/750 sxs cmt. Circ.

2-3/8" PVC tubing @ 5000'
Otis Interlock Packer @ 5000'

Blinebry Perfs @ 5100' to 5271'.

Proposed Additional Perfs @ 5300' to 6100'

Proposed CIBP @ 6200'

PBD @ 6880'
Fusselman Perfs @ 6815' to 6819'

Fusselman Perfs @ 6882' to 6899'

8-3/4" hole.
7" csg @ 6947'.
Set w/1190 sxs cmt. Circ.

TD @ 6950'.

SJU 'H' #260

LOCATION: 330' FSL & 990' FEL (P), SEC. 25, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: BRUNO/ARCO OIL AND GAS COMPANY

FORMER WELL NAME: CARLSON B-25 #6

BLM TRACT NUMBER: 21 **API NUMBER:** 3002522262

SPUD DATE: 10/19/67

KB: 3062' GL: 3051' TD: 6950' PBTD: 6880'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"			841'	750 sxs cmt, circ
7"	23#	J-55/N-80	8230'	1190 sx cmt, circ

LOGS:

Date	Company	Log Name
11/13/67	Schlumberger	FDC, SNP, L

DST's:

INITIAL COMPLETION: IP Fusselman (6815-69'), F 360 BOPD, TP 175#, GOR 166, Gravity 38.5°

INITIAL COMPLETION DATE: 11/16/67

TREATMENTS AND WORKOVERS

3-72 New Fusselman perfs 6882', 83', 85', 94', 6895', 97', 98', 99'
Swbd 10 BW/Hr. PBD 6880'

3-74 Blinebry perfs 40/4993-5271', F/80,000 gals & 120,000#.
P 35 BO, 35 BW, GOR 300, Gravity 37°

INJECTION WELL DATA SHEET

OPERATOR	LEASE
ARCO Oil and Gas Company	South Justis Unit

WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
I #260	330' FSL & 330' FWL (M)	Sec. 30,	T-25S,	R-38E

Schematic

Tabular Data

Surface Casing

Size 13-3/8" Cemented with 300 sx.

TOC Surface feet determined by Circ

Hole size 17-1/4"

Intermediate Casing

Size 9-5/8" Cemented with 1600 sx.

TOC 504 feet determined by Calculated

Hole size 12-1/4"

Long string

Size 7" Cemented with 700 sx.

TOC 2162 feet determined by Calculated

Hole size 8-3/4"

Total depth 7020'

Injection interval

5100 feet to 6100 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with PVC (material) set in a

Otis Interlock (brand and model) packer at 5000 feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Blinebry & Tubb/Drinkard

2. Name of Field or Pool (if applicable) _____

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

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

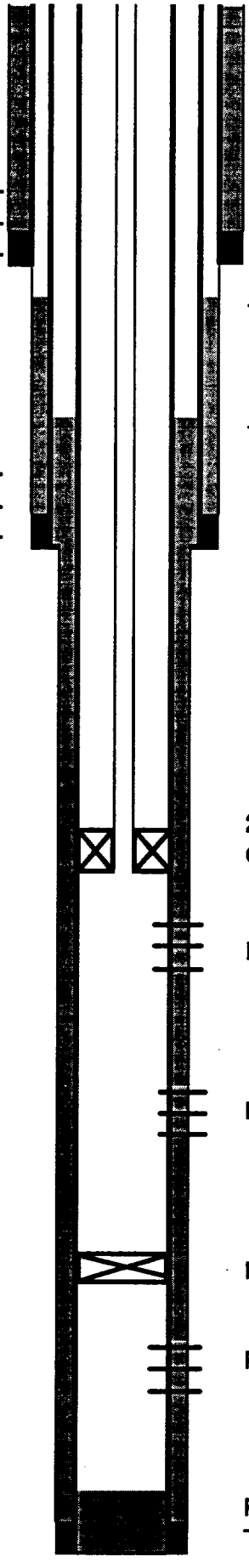
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) See Attached Wellbore Schematic

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

Seven Rivers-Queen 2700', Glorieta 4700', Paddock 4800', Abo 6300',

Fusselman 6600', Montoya 6800', McKee 7000', Ellenburger 8100'

WELLBORE SCHEMATIC



South Justis Unit I #260

(MW Petroleum State AJ #6)
330' FSL & 330' FWL (M)
Sec.30, T-25S, R-38E, Lea Co., NM
KB-3068'
Spudded 09/17/60
Completed 11/01/60

17-1/4" Hole.
13-3/8" casing @ 320'.
Set w/300 sxs cmt. Circ.

TOC @ 504' (Calculated)

TOC @ 2162' (Calculated)

12-1/4" Hole.
9-5/8" casing @ 3200'.
Set w/1600 sxs cmt.

2-3/8" PVC tubing @ 5000'
Otis Interlock Packer @ 5000'

Blinebry Perfs @ 5172' to 5330'

Proposed Perfs @ 5350' to 6100'

Proposed CIBP @ 6200'

Fusselman Perfs @ 6938' to 6954'

8-3/4" hole.
7" csg @ 7020' w/700 sxs cmt.

PBD @ 6986'
TD @ 7020'.

SOUTH JUSTIS UNIT "I" #260

LOCATION: 330' FSL & 330' FWL (M), SEC. 30, T-25S, R-38E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: MW PETROLEUM

FORMER WELL NAME: STATE "AJ" #6

BLM TRACT NUMBER: 33 **API NUMBER:** 3002512438

SPUD DATE: 9/17/60

KB: 3068' GL: 3054' TD: 7020' PBTD: 6986'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			320'	300 sxs cmt, circ
9-5/8"			3200'	1600 sxs cmt, (TOC @ 504' - Calc)
7"			7020'	700 sxs cmt, (TOC @ 2162' - Calc)

LOGS:

Date	Company	Log Name
10/13/60	Lane Wells	GR-N, IL-IES

DST's:

INITIAL COMPLETION: IP: Blinebry (5172-5330'), A/500, SOF 20,000/40,000, GOR 1436,
F 48 BO
Fusselman (6938-54'), A/1000, F 187 BO, 15 BW, GOR 328

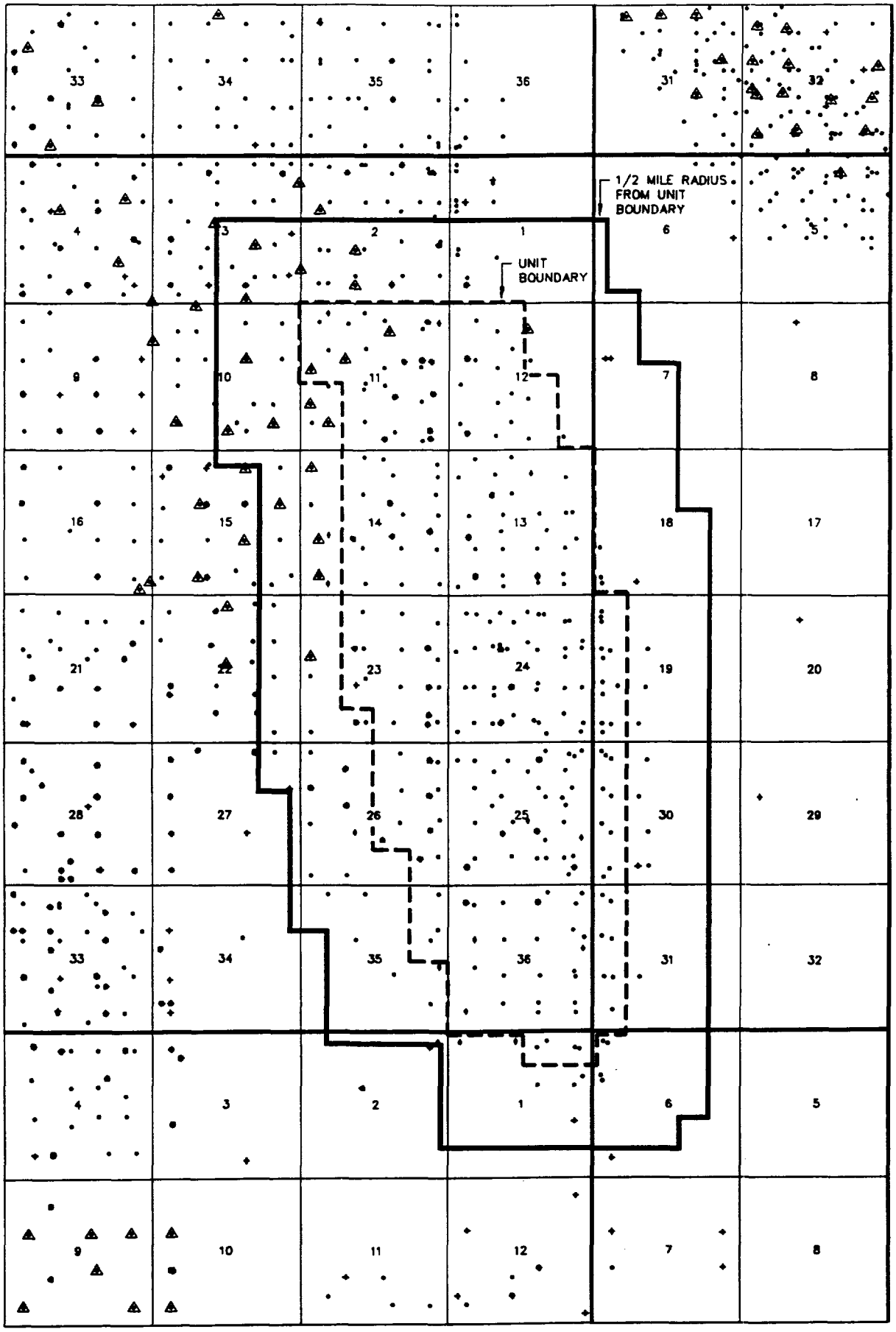
INITIAL COMPLETION DATE: 11/1/60

TREATMENTS AND WORKOVERS

10-63 A/Fuss w/3000 gals

4-65 A/Fuss w/1250 gals

EXHIBIT V



ARCO Oil and Gas Company

Central District Midland, Texas

SOUTH JUSTIS UNIT
AREA REVIEW PLAT

Lea Co., New Mexico

EXHIBIT VI

EXHIBIT VI

C-108
Exhibit VI
Area of Review Well Data

Operator	Well	Location	Sec-T-R	Proposed Well No.	Field	Status
Oxy	Hodges B #5	1650' FSL & 1650' FWL	Sec 1 (K), T-25S, R-37E	Not in Unit	Devn, No.	Active
Oxy	Hodges B #2	1880' FSL & 330' FWL	Sec 1 (L), T-25S, R-37E	Not in Unit	Fuss, No.	Active
Oxy	Hodges B #3	1908' FSL & 330' FWL	Sec 1 (L), T-25S, R-37E	Not in Unit	Bly	Active
Oxy	Hodges B #4	990' FSL & 660' FWL	Sec 1 (M), T-25S, R-37E	Not in Unit	Bly-Tb/Dkd	Active
Oxy	Hodges B #6	660' FSL & 1650' FWL	Sec 1, (N), T-25S, R-37E	Not in Unit	Bly-Tb/Dkd	Active
Exxon	New Mexico BM St #1	2310' FSL & 330' FEL	Sec 2 (I), T-25S, R-37E	Not in Unit	Fuss-Mckee	P&A'd
Exxon	New Mexico BM St #2	2160' FSL & 330' FEL	Sec 2 (I), T-25S, R-37E	Not in Unit	Bly-Tb/Dkd	P&A'd
Conoco	State A-2 #2	2310' FSL & 1650' FEL	Sec 2 (J), T-25S, R-37E	Not in Unit	Bly-Tb/Dkd	Active
Texaco	New Mexico BZ NCT-10 #1	1980' FSL & 2307' FWL	Sec 2 (K), T-25S, R-37E	Not in Unit	Bly	Active
Texaco	New Mexico BZ NCT-10 #3	1980' FSL & 989' FWL	Sec. 2 (L), T-25S, R-37E	Not in Unit	Bly-Tb/Dkd	Active
Texaco	New Mexico BZ NCT-10 #4	660' FSL & 989' FWL	Sec 2 (M), T-25S, R-37E	Not in Unit	Bly-Tb/Dkd	Active
Texaco	New Mexico BZ NCT-10 #2	990' FSL & 1978' FWL	Sec 2 (N), T-25S, R-37E	Not in Unit	Bly	Active
Conoco	State A-2 #3	990' FSL 7 1650' FEL	Sec 2 (O), T-25S, R-37E	Not in Unit	Bly-Tb/Dkd	Active
JFG Enterprises	New Mexico BM St #3	990' FSL & 330' FEL	Sec 2 (P), T-25S, R-37E	Not in Unit	Bly	Active
Morexco	Fristoe A Fed NCT 2 #8	990' FSL & 330' FEL	Sec 3 (P), T-25S, R-37E	Not in Unit	Bly	SI
Chevron	J. A. Stuart #9	330' FN & EL	Sec 10 (A),T-25S, R-37E	Not in Unit	Bly-Tb/Dkd	P&A'd
ARCO	Jal #3	990' FN&EL	Sec 11 (A), T-25S, R-37E	SJU Tract D #11	Bly-Tb/Dkd	Active
ARCO	Jal #2	660' FNL & 2310' FEL	Sec 11 (B), T-25S, R-37E	SJU Tract C #11	Bly-Tb/Dkd	Active
Meridian	Stuart #6	330' FNL & 2310' FWL	Sec 11 (C), T-25S, R-37E	SJU Tract B #11	Bly-Tb/Dkd	Active
ARCO	J. A Stuart #8	330' FNL & 990' FWL	Sec 11 (D), T-25S, R-37E	SJU Tract A #11	Tb-Dkd	TA'd
Meridian	Stuart #8	1650' FNL & 990'FWL	Sec 11 (E), T-25S, R-37E	SJU Tract A #12	Bly	Shut-In
Meridian	Stuart #7	1650' FNL & 2310' FWL	Sec 11 (F), T-25S, R-37E	SJU Tract B #12	Bly-Tb/Dkd	Active
ARCO	Langlie B (JH) #1	2310' FNL & FEL	Sec 11 (G), T-25S, R-37E	SJU Tract C #12	Bly-Tb/Dkd	Active
ARCO	Langlie B (JH) #2	2310' FNL & 990' FEL	Sec 11 (H), T-25S, R-37E	SJU Tract D #12	Bly-Tb/Dkd	Active
Meridian	Justis #2	1650' FSL & 990' FEL	Sec 11 (I), T-25S, R-37E	SJU Tract D #13	Bly-Tb/Dkd	Active
Meridian	Justis #1	2310' FSL & 2310' FEL	Sec 11 (J), T-25S, R-37E	SJU Tract C #13	Bly-Tb/Dkd	Active
Meridian	O. Stuart #1	2310' FS & WL	Sec 11 (K), T-25S, R-37E	Not in Unit	Bly-Tb/Dkd	TA'd
Meridian	O. Stuart #2	2160' FSL & 2310' WL	Sec 11 (K), T-25S, R-37E	SJU Tract B #13	Bly-Tb/Dkd	Active
Meridian	Two States Stuart #1	2310' FSL & 990' FWL	Sec 11 (L), T-25S, R-37E	Not in Unit	Bly	TA'd
Cecil Rhodes	Corrigan #1	990' FSL & FWL	Sec 11 (M), T-25S, R-37E	Not in Unit	Bly	P&A'd
ARCO	J. A. Stuart #1 (VF)	990' FSL & 2310' FWL	Sec 11 (N), T-25S, R-37E	SJU Tract B #140	Bly	Active
ARCO	Justis Federal #2	660' FSL & 1980' FEL	Sec 11 (O), T-25S, R-37E	SJU Tract C #14	Bly	Active
ARCO	Justis Federal #3	355' FSL & 990' FEL	Sec 11 (P), T-25S, R-37E	SJU Tract D #14	Bly	Active
Lanexco	Justis BC Fed Com #3	660' FSL & FEL	Sec 11 (P), T-25S, R-37E	Not in Unit	Glorieta	Active

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Area of Review Well Data

Operator	Well	Location	Sec-T-R	Proposed Well No.	Field	Status
Rice Engineering	WD-B-12	880' FNL & 2310' FEL	Sec 12 (B), T-25S, R-37E	Not In Unit	Grbg-S. A.	Active-SWD
ARCO	N.W. Eaton (JH) #15	990' FNL & 1650' FWL	Sec 12 (C), T-25S, R-37E	SJU Tract F #11	Bly-Tb/Dkd	TA'd
ARCO	N.W. Eaton (JH) #17	660' FNL & 990' FWL	Sec 12 (D), T-25S, R-37E	SJU Tract E #11	Bly	Active
ARCO	N.W. Eaton (JH) #16	1980' FNL & 990' FWL	Sec 12 (E), T-25S, R-37E	SJU Tract E #12	Bly	Active
ARCO	N.W. Eaton (JH) #14	2310' FNL & 1650' FWL	Sec 12 (F), T-25S, R-37E	SJU Tract F #12	Bly-Tb/Dkd	TA'd
ARCO	S.E. Eaton (JH) #13	1750' FSL & 2310' FEL	Sec 12 (J), T-25S, R-37E	SJU Tract G #13	Bly	TA'd
ARCO	S.W. Eaton (JH) #11	1650' FSL & 1750' FWL	Sec 12 (K), T-25S, R-37E	SJU Tract F #13	Bly-Tb/Dkd	Active
ARCO	S.W. Eaton (JH) #9	2310' FSL & 330' FWL	Sec 12 (L), T-25S, R-37E	SJU Tract E #13	Bly	Active
ARCO	S.W. Eaton (JH) #8	990' FSL & 330' FWL	Sec 12 (M), T-25S, R-37E	SJU Tract E #14	Bly-Tb/Dkd	TA'd
ARCO	S.W. Eaton (JH) #10	500' FSL & 1650' FWL	Sec 12 (N), T-25S, R-37E	Not In Unit	Bly-Tb/Dkd	TA'd
ARCO	S.E. Eaton (JH) #12	430' FSL & 2310' FEL	Sec 12 (O), T-25S, R-37E	SJU Tract G #14	Bly	Active
Pacific Enterprises	Carlson B-13 #8	990' FNL & 990' FEL	Sec. 13 (A), T-25S,R-37E	SJU Tract H #15	Bly	Active
Pacific Enterprises	Carlson B-13 #7	990' FNL & 2200' FEL	Sec. 13 (B), T-25S,R-37E	Not In Unit	Bly	P&A'd
Meridian	Blocker Fed 7	890' FNL & 1650' FWL	Sec. 13 (C), T-25S,R-37E	SJU Tract F #15	Bly	Active
Meridian	Blocker Fed 6	990' FNL & 330' FWL	Sec. 13 (D), T-25S,R-37E	SJU Tract E #15	Bly-Tb/Dkd	Active
Meridian	Blocker Fed 5	2310' FNL & 750' FWL	Sec. 13 (E), T-25S,R-37E	SJU Tract E #16	Bly-Tb/Dkd	Active
Meridian	Blocker Fed 4	2310' FNL & 1980' FWL	Sec. 13 (F), T-25S,R-37E	SJU Tract F #16	Bly-Tb/Dkd	Active
Pacific Enterprises	Carlson B-13 #5	2310'FNL & 1980' FEL	Sec. 13 (G), T-25S, R-37E	SJU Tract G #16	Bly-Tb/Dkd	Active
Pacific Enterprises	Carlson B-13 #6	2310'FNL & 990' FEL	Sec. 13 (H), T-25S, R-37E	SJU Tract H #16	Bly	Active
ARCO	L. McBuffington #12	1650' FSL & 990' FEL	Sec. 13 (I), T-25S, R-37E	SJU Tract H #17	Bly	Active
ARCO	L. McBuffington #5	1650' FSL & 1980' FEL	Sec. 13 (J), T-25S, R-37E	SJU Tract G #17	Bly	Active
Chevron	L. McBuffington #9	1650' FSL & 1980' FWL	Sec. 13 (K), T-25S, R-37E	Not In Unit	Fusselman	Active
ARCO	L. McBuffington #10	1650' FSL & 990' FWL	Sec. 13 (L), T-25S, R-37E	SJU Tract E #17	Bly-Tb/Dkd	Active
Chevron	L. McBuffington #7	660' FSL & 990' FWL	Sec. 13 (M), T-25S, R-37E	Not In Unit (E #18)	Glorieta	Active
ARCO	L. McBuffington #13	330' FSL & 330' FWL	Sec. 13 (M), T-25S, R-37E	Not In Unit	Bly	Active
ARCO	L. McBuffington #4	660' FSL & 1980' FWL	Sec. 13 (N), T-25S, R-37E	SJU Tract F #18	Bly	Active
Chevron	L. McBuffington #8	330' FSL & 1980' FWL	Sec 13 (N), T-25S, R-37E	Not In Unit	Montoya	Active
ARCO	L. McBuffington #3	660' FSL & 1980' FEL	Sec. 13 (O), T-25S, R-37E	SJU Tract G #18	Tb/Dkd	Active
ARCO	L. McBuffington #6	330' FSL & 1980' FEL	Sec. 13 (O), T-25S, R-37E	Not In Unit	Bly	Active
ARCO	L. McBuffington #11	660' FSL & 990' FEL	Sec. 13 (P), T-25S, R-37E	SJU Tract H #18	Tb/Dkd	Active
ARCO	L. McBuffington #14	330' FSL & 990' FEL	Sec. 13 (P), T-25S, R-37E	Not In Unit	Bly	Active

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Area of Review Well Data

Operator	Well	Location	Sec-T-R	Proposed Well No.	Field	Status
ARCO	Langlie B Federal #1	990' FNL & 330' FEL	Sec. 14 (A), T-25S, R-37E	SJU Tract D #15	Bly	Active
ARCO	Langlie B Federal #2	890' FNL &1980' FEL	Sec. 14 (B), T-25S, R-37E	SJU Tract C #15	Bly	Active
ARCO	Stuart 'A' WN #2	330' FNL & 2310' FWL	Sec. 14 (C), T-25S, R-37E	SJU Tract B #150	Bly-Tb/Dkd	Active
ARCO	W. F. Stuart #1 (AHC)	1650' FNL & 2310' FWL	Sec. 14 (F), T-25S, R-37E	SJU Tract B #16	Bly-Tb/Dkd	Active
ARCO	Langlie Federal 'A' #2	2310' FNL & 1650' FEL	Sec. 14 (G), T-25S, R-37E	SJU Tract C #16	Bly	Active
ARCO	Langlie Federal 'A' #1	2310' FNL & 330' FEL	Sec. 14 (H), T-25S, R-37E	SJU Tract D #16	Bly	Active
ARCO	Langlie Federal #1	1650' FSL & 330' FEL	Sec. 14 (I), T-25S, R-37E	SJU Tract D #17	Bly	Active
ARCO	Langlie Federal #2	1650' FSL & 1650' FEL	Sec. 14 (J), T-25S, R-37E	SJU Tract C #17	Bly	Active
Meridian	Langlie Federal D #2	1650' FSL & 2310' FWL	Sec. 14 (K), T-25S, R-37E	SJU Tract B #17	Bly	Active
Amoco	Langlie B Federal #6	2110' FSL & 990' FWL	Sec. 14 (L), T-25S, R-37E	Not In Unit	Bly	P&A'd
Amoco	Langlie B Federal #5	330' FSL & 990' FWL	Sec. 14 (M), T-25S, R-37E	Not In Unit	Bly	P&A'd
Meridian	Langlie Federal D #1	330' FSL & 2310' FWL	Sec. 14 (N), T-25S, R-37E	SJU Tract B #18	Bly	Active
Meridian	Langlie B #2	330' FSL & 1650' FEL	Sec. 14 (O), T-25S, R-37E	SJU Tract C #18	Bly	Active
Meridian	Langlie B #1	330' FSL & 330 FEL	Sec.14 (P), T-25S, R-37E	SJU Tract D #18	Bly-Tb/Dkd	Active
ARCO	Wimberly 2 (JH)	990' FNL & 330' FEL	Sec. 23 (A), T-25S, R-37E	SJU Tract D #19	Bly-Tb/Dkd	Shut-in
ARCO	Wimberly WN #7	660' FNL & 1650' FEL	Sec. 23 (B), T-25S, R-37E	SJU Tract C #19	Bly-Tb/Dkd	Active
ARCO	Wimberly WN #8	660' FNL & 2310' FWL	Sec. 23 (C), T-25S, R-37E	SJU Tract B #19	Bly	Active
ARCO	Wimberly WN #10	1980' FNL & 2309' FWL	Sec. 23 (F), T-25S, R-37E	SJU Tract B #20	Bly	Active
Texaco	Las Cruces C-1	1980' FNL & 1650' FEL	Sec. 23 (G), T-25S, R-37E	SJU Tract C #20	Bly-Tb/Dkd	Active
ARCO	Wimberly 1 (JH)	1980' FNL & 660' FEL	Sec. 23 (H), T-25S, R-37E	Not In Unit	Glorieta	Active
ARCO	Wimberly 3 (JH)	2310' FNL & 330' FEL	Sec. 23 (H), T-25S, R-37E	SJU Tract D #20	Bly-Tb/Dkd	Active
ARCO	Carlson Fed "A" #1	1980' FSL & 330' FEL	Sec. 23 (I), T-25S, R-37E	SJU Tract D #21	Bly	Active
ARCO	Carlson Fed "A" #2	1980' FSL &1650' FEL	Sec. 23 (J), T-25S, R-37E	SJU Tract C #21	Bly-Tb/Dkd	Active
American Exploration	Carlson A-23 #1	2310' FSL & 2310' FWL	Sec. 23 (K), T-25S, R-37E	SJU Tract B #21	Bly	Shut-in
Leeser	El Paso Federal 2	660' FSL & 2310' FWL	Sec. 23 (N), T-25S, R-37E	Not In Unit	Bly	Active
American Exploration	El Paso Federal 1	660' FSL & 1980' FEL	Sec. 23 (O), T-25S, R-37E	SJU Tract C #22	Bly	TA'd
Meridian	Carlson B-1	660' FSL & 330' FEL	Sec. 23 (P), T-25S, R-37E	SJU Tract D #22	Bly-Tb/Dkd	Active

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Area of Review Well Data

Operator	Well	Location	Sec-T-R	Proposed Well No.	Field	Status
Texaco	A. B. Coates C #25	990' FNL & 940' FEL	Sec. 24 (A), T-25S, R-37E	Not In Unit	Bly-Tb/Dkd	Shut-In
Texaco	A. B. Coates C #20	990' FNL & 990' FEL	Sec. 24 (A), T-25S, R-37E	Not In Unit	Ellen.	Active
Texaco	A. B. Coates C #6	660' FNL & 1980' FEL	Sec. 24 (B), T-25S, R-37E	SJU Tract G #19	Paddock	Active
Texaco	A. B. Coates C #8	660' FNL & 1880' FEL	Sec. 24 (B), T-25S, R-37E	Not In Unit	Bly	P&A'd
Texaco	A. B. Coates C #22	660' FNL & 2310' FEL	Sec. 24 (B), T-25S, R-37E	Not In Unit	Montoya	Active
ARCO	Wimberly WN #2	660' FNL & 1980' FWL	Sec. 24 (C), T-25S, R-37E	SJU Tract F #19	Tb/Dkd	Active
ARCO	Wimberly WN #5	990' FNL & 2310' FWL	Sec. 24 (C), T-25S, R-37E	Not In Unit	Bly	Active
ARCO	Wimberly WN #11	990' FNL & 1490' FWL	Sec. 24 (C), T-25S, R-37E	Not In Unit	Tb/Dkd	Active
ARCO	Wimberly WN #3	660' FNL & 660' FWL	Sec. 24 (D), T-25S, R-37E	SJU Tract E #19	Bly	Active
ARCO	Wimberly WN #6	990' FNL & 990' FWL	Sec. 24 (D), T-25S, R-37E	SJU Tract E #191	Fusselman	TA'd
ARCO	Wimberly WN #4	1980' FNL & 990' FWL	Sec. 24 (E), T-25S, R-37E	SJU Tract E #201	Tb/Dkd	TA'd
ARCO	Wimberly WN #9	1980' FNL & 330' FWL	Sec. 24 (E), T-25S, R-37E	SJU Tract E #20	Bly	Active
Texaco	A. B. Coates "C" #10	1980' FNL & 2080' FWL	Sec. 24 (F), T-25S, R-37E	Not In Unit	Fusselman	Active
Texaco	A. B. Coates "C" #11	1980' FNL & 1650' FWL	Sec. 24 (F), T-25S, R-37E	Not In Unit	Tb/Dkd	Shut-In
Texaco	A. B. Coates "C" #28	1795' FNL & 1795' FWL	Sec. 24 (F), T-25S, R-37E	SJU Tract F #20	Bly	Active
Texaco	A. B. Coates "C" #7	1980' FNL & 1980' FEL	Sec. 24 (G), T-25S, R-37E	SJU Tract G #20	Tb/Dkd	Active
Texaco	A. B. Coates "C" #14	1650' FNL & 2310' FEL	Sec. 24 (G), T-25S, R-37E	Not In Unit	Montoya	Active
Texaco	A. B. Coates "C" #17	2280' FNL & 960' FEL	Sec. 24 (H), T-25S, R-37E	Not In Unit	McKee	P&A'd
Texaco	A. B. Coates "C" #24	1980' FNL & 990' FEL	Sec. 24 (H), T-25S, R-37E	Not In Unit	Bly	P&A'd
Texaco	A. B. Coates "C" #29	1650' FNL & 330' FEL	Sec. 24 (H), T-25S, R-37E	Not In Unit	Ellen.	Active
Texaco	A. B. Coates "C" #18	1980' FSL & 990' FEL	Sec. 24 (I), T-25S, R-37E	SJU Tract H #21	Bly-Ellen	Shut-In
Texaco	A. B. Coates "C" #9	1980' FSL & 1980' FEL	Sec. 24 (J), T-25S, R-37E	Not In Unit	Montoya	Active
Texaco	A. B. Coates "C" #21	2080' FSL & 1980' FEL	Sec. 24 (J), T-25S, R-37E	SJU Tract G #21	Tb/Dkd	Shut-In
Texaco	A. B. Coates "C" #12	1980' FSL & 1650' FWL	Sec. 24 (K), T-25S, R-37E	SJU Tract F #21	Fus-Tb/Dkd	Active
Texaco	A. B. Coates "C" #13	1980' FSL & 2310' FWL	Sec. 24 (K), T-25S, R-37E	Not In Unit	Montoya	Active
Texaco	A. B. Coates "C" #27	1650' FSL & 1650' FWL	Sec. 24 (K), T-25S, R-37E	Not In Unit	Bly	Active
ARCO	Ida Wimberley #3	1980' FSL & 990' FWL	Sec. 24 (L), T-25S, R-37E	SJU Tract E #21	Fusselman	TA'd
ARCO	Ida Wimberley #11	1980' FSL & 660' FWL	Sec. 24 (L), T-25S, R-37E	Not In Unit	Bly/LM	Active
ARCO	Ida Wimberley #4	660' FSL & 990' FWL	Sec. 24 (M), T-25S, R-37E	SJU Tract E #22	Tb/Dkd	Shut-In
ARCO	Ida Wimberley #13	330' FSL & 330' FWL	Sec. 24 (M), T-25S, R-37E	Not In Unit	Lang. Mattix	Active
Texaco	A. B. Coates "D" #2	660' FSL & 1650' FWL	Sec. 24 (N), T-25S, R-37E	SJU Tract F #22	Fus-Tb/Dkd	Active
Texaco	A. B. Coates "D" #3	990' FSL & 2310' FWL	Sec. 24 (N), T-25S, R-37E	Not In Unit	Montoya	Active
Texaco	A. B. Coates "C" #15	660' FSL & 1980' FEL	Sec. 24 (O), T-25S, R-37E	Not In Unit	Montoya	Active
Texaco	A. B. Coates "C" #16	760' FSL & 2030' FEL	Sec. 24 (O), T-25S, R-37E	SJU Tract G #22	Bly-Tb/Dkd	Shut-In
Texaco	A. B. Coates "C" #26	330' FSL & 1650' FEL	Sec. 24 (O), T-25S, R-37E	Not In Unit	Bly	Shut-In
Texaco	A. B. Coates "C" #19	990' FSL & 990' FEL	Sec. 24 (P), T-25S, R-37E	SJU Tract H #22	Bly-Tb/Dkd	Shut-In
Texaco	A. B. Coates "C" #23	330' FSL & 330' FEL	Sec. 24 (P), T-25S, R-37E	SJU Tract H #220	Bly-Tb/Dkd	Shut-In

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Area of Review Well Data

Operator	Well	Location	Sec-T-R	Proposed Well No.	Field	Status
ARCO	State Y #7	430'FNL & 760' FEL	Sec. 25 (A), T-25S, R-37E	SJU Tract H #23	Bly-Mtya	Active
ARCO	State Y #9	990'FNL & 990' FEL	Sec. 25 (A), T-25S, R-37E	SJU Tract H #230	Montoya	Shut-In
ARCO	State Y #3	330'FNL & 1650' FEL	Sec. 25 (B), T-25S, R-37E	SJU Tract G #23	Bly-Mtya	Active
ARCO	State Y #5	990'FNL & 2308' FEL	Sec. 25 (B), T-25S, R-37E	SJU Tract G #230	Fusselman	Active
ARCO	Ida Wimberley #5	660' FNL & 2080 FWL	Sec. 25 (C), T-25S, R-37E	SJU Tract F #23	Fusselman	Active
ARCO	Ida Wimberley #17	990' FNL & 1650' FWL	Sec. 25 (C), T-25S, R-37E	SJU Tract F #230	Bly	Active
ARCO	Ida Wimberley #7	660' FNL & 990' FWL	Sec. 25 (D), T-25S, R-37E	SJU Tract E #23	San Andres	SWDW
ARCO	Ida Wimberley #15	660' FNL & 330' FWL	Sec. 25 (D), T-25S, R-37E	Not In Unit	Bly/LM	Active
ARCO	Ida Wimberley #9	1650' FNL & 990' FWL	Sec. 25 (E), T-25S, R-37E	SJU Tract E #24	Bly	Active
ARCO	Ida Wimberley #16	2310' FNL & 1650' FWL	Sec. 25 (F), T-25S, R-37E	Not In Unit	Bly/LM	Active
ARCO	Ida Wimberley #6	1980' FNL & 1980' FWL	Sec. 25 (F), T-25S, R-37E	SJU Tract F #24	Tb/Dkd	Active
ARCO	Ida Wimberley #8	1650' FNL & 1980' FEL	Sec. 25 (G), T-25S, R-37E	SJU Tract G #24	Fusselman	TA'd
ARCO	Ida Wimberley #14	1980' FNL & 1650' FEL	Sec. 25 (G), T-25S, R-37E	Not In Unit	Bly/LM	Active
ARCO	State Y #6	1650' FNL & 660' FEL	Sec. 25 (H), T-25S, R-37E	SJU Tract H #24	Bly-Montoya	Active
ARCO	State Y #8	1980' FNL & 990' FEL	Sec. 25 (H), T-25S, R-37E	Not In Unit	Fusselman	Active
ARCO	State Y #10	2310' FNL & 990' FEL	Sec. 25 (H), T-25S, R-37E	SJU Tract H #240	Tb/Dkd	Active
Meridian	Carlson Fed A #2	2310' FSL & 990' FEL	Sec. 25 (I), T-25S, R-37E	SJU Tract H #25	Fusselman	Active
Meridian	Carlson Fed A #5	1650' FSL & 330' FEL	Sec. 25 (I), T-25S, R-37E	SJU Tract H #250	Bly	Active
Meridian	Carlson Fed A #6	1650' FSL & 1650' FEL	Sec. 25 (J), T-25S, R-37E	SJU Tract G #25	Bly	TA'd
Meridian	Carlson Fed A #1	2310' FSL & 2310' FEL	Sec. 25 (J), T-25S, R-37E	Not In Unit	Bly	TA'd
ARCO	Carlson Federal #1	2310' FSL & 2309' FWL	Sec. 25 (K), T-25S, R-37E	SJU Tract F #25	Bly	Active
ARCO	Carlson Federal #2	2310' FSL & 990' FWL	Sec. 25 (L), T-25S, R-37E	SJU Tract E #25	Bly	Active
Meridian	Carlson Fed A #4	990' FSL & 990' FWL	Sec. 25 (M), T-25S, R-37E	SJU Tract E #26	Bly-Tb/Dkd	Active
Meridian	Carlson Fed A #3	990' FSL & 2310' FWL	Sec. 25 (N), T-25S, R-37E	SJU Tract F #26	Bly-Tb/Dkd	Active
ARCO	Carlson B-25 Fed 3	990' FSL & 1650' FEL	Sec. 25 (O), T-25S, R-37E	Not In Unit	Tb/Dkd-Abo	Active
ARCO	Carlson B-25 Fed 5	990' FSL & 1980' FEL	Sec. 25 (O), T-25S, R-37E	SJU Tract G #26	Bly	Active
ARCO	Carlson B-25 Fed 2	990' FSL & 660' FEL	Sec. 25 (P), T-25S, R-37E	SJU Tract H #26	Bly-Tb/Dkd	Active
ARCO	Carlson B-25 Fed 4	990' FSL & 990' FEL	Sec. 25 (P), T-25S, R-37E	Not In Unit	Tb/Dkd	Active
ARCO	Carlson B-25 Fed 6	330' FSL & 990' FEL	Sec. 25 (P), T-25S, R-37E	SJU Tract H #260	Bly-Fuss.	Active
ARCO	Ida Wimberley #10	660' FNL & 330' FEL	Sec. 26 (A), T-25S, R-37E	SJU Tract D #23	Bly	Active
ARCO	Carlson Federal (JH) #1	330' FNL & 1650' FEL	Sec. 26 (B), T-25S, R-37E	SJU Tract C #23	Bly	Active
ARCO	Carlson Federal (JH) #2	1750' FNL & 1650' FEL	Sec. 26 (G), T-25S, R-37E	SJU Tract C #24	Bly	Active
Meridian	Carlson B #2	1650' FNL & 330' FEL	Sec. 26 (H), T-25S, R-37E	SJU Tract D #24	Bly-Tb/Dkd	Active
ARCO	Carlson B-26 #5	2310' FSL & 330' FEL	Sec. 26 (I), T-25S, R-37E	SJU Tract D #25	Bly	Active
ARCO (Westates)	Carlson B-26 #7	2310' FSL & 1650' FEL	Sec. 26 (J), T-25S, R-37E	SJU Tract C #25	Bly-Pad	P&A'd
Union Texas	Sunray #1	1980' FSL & 1980' FWL	Sec. 26 (K), T-25S, R-37E	Not In Unit	Bly	TA'd
ARCO	Carlson B-26 #6	990' FSL & 330' FEL	Sec. 26 (P), T-25S, R-37E	SJU Tract D #26	Bly	Active

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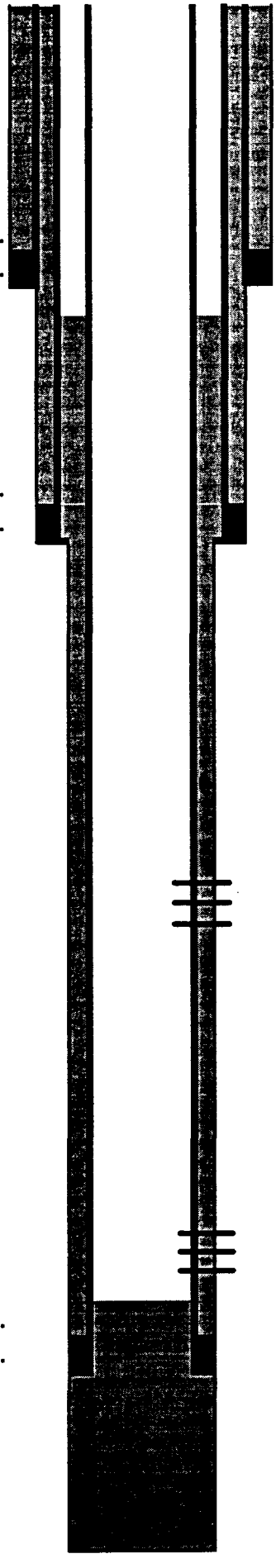
Exhibit VI
Area of Review Well Data

Operator	Well	Location	Sec-T-R	Proposed Well No.	Field	Status
ARCO	Federal 35-1 (DG)	330' FNL & 330' FEL	Sec. 35 (A), T-25S, R-37E	SJU Tract D #27	Bly	Active
Meridian	Gregory Federal A-1	1650' FNL & 330' FEL	Sec. 35 (H), T-25S, R-37E	SJU Tract D #28	Bly	Active
ARCO	Gregory Federal #1	2310' FSL & 330' FEL	Sec. 35 (I), T-25S, R-37E	Not In Unit	Bly	P&A'd
ARCO	Arnott Ramsay F-5	660' FNL & 560' FEL	Sec. 36 (A), T-25S, R-37E	SJU Tract H #27	Bly	Active
ARCO	Arnott Ramsay F-8	330' FNL & 330' FEL	Sec. 36 (A), T-25S, R-37E	Not In Unit	Fusselman	Shut-in
ARCO	Arnott Ramsay F-9	330' FNL & 1650' FEL	Sec. 36 (B), T-25S, R-37E	SJU Tract G #27	Tb/Dkd	Shut-in
ARCO	Arnott Ramsay F-3	660' FNL & 1980' FEL	Sec. 36 (B), T-25S, R-37E	Not In Unit	Glorieta	Shut-in
ARCO	Arnott Ramsay F-6	660' FNL & 1980' FWL	Sec. 36 (C), T-25S, R-37E	SJU Tract F #27	Bly	Active
ARCO	Arnott Ramsay F-7	690' FNL & 925' FWL	Sec. 36 (D), T-25S, R-37E	SJU Tract E #27	Bly	Active
ARCO	Arnott Ramsay F-12	1980' FNL & 990' FWL	Sec. 36 (E), T-25S, R-37E	Not In Unit	Bly	P&A'd
ARCO	Arnott Ramsay F-11	1980' FNL & 1980' FWL	Sec. 36 (F), T-25S, R-37E	SJU Tract F #28	Bly	Active
ARCO	Arnott Ramsay F-4	1980' FNL & 1980' FEL	Sec. 36 (G), T-25S, R-37E	SJU Tract G #28	Bly	Active
ARCO	Arnott Ramsay F-10	1650' FNL & 660' FEL	Sec. 36 (H), T-25S, R-37E	SJU Tract H #28	Bly	Active
ARCO	Arnott Ramsay F-13	2310' FNL & 330' FEL	Sec. 36 (H), T-25S, R-37E	Not In Unit	Tb/Dkd	P&A'd
ARCO	Vinson Ramsay B-8	2100' FSL & 660' FEL	Sec. 36 (I), T-25S, R-37E	SJU Tract H #29	Bly	Active
ARCO	Vinson Ramsay B-7	1980' FSL & 1980' FEL	Sec. 36 (J), T-25S, R-37E	SJU Tract G #29	Bly	Active
ARCO	Vinson Ramsay B-6	1980' FSL & 1980' FWL	Sec. 36 (K), T-25S, R-37E	SJU Tract F #29	Bly	Active
ARCO	Vinson Ramsay B-12	2310' FSL & 990' FWL	Sec. 36 (L), T-25S, R-37E	SJU Tract E #29	Bly	Active
ARCO	Vinson Ramsay B-1	660' FSL & 660' FWL	Sec. 36 (M), T-25S, R-37E	Not In Unit	Bly	P&A'd
ARCO	Vinson Ramsay B-11	990' FSL & 1980' FWL	Sec. 36 (N), T-25S, R-37E	SJU Tract F #30	Bly	Active
ARCO	Vinson Ramsay B-10	990' FSL & 1980' FEL	Sec. 36 (O), T-25S, R-37E	SJU Tract G #30	Bly	Active
ARCO	Vinson Ramsay B-9	990' FSL & 660' FEL	Sec. 36 (P), T-25S, R-37E	SJU Tract H #30	Bly	Active
Texaco	G. D. Riggs "B" #6	660' FNL & 560' FEL	Sec. 1 (A), T-26S, R-37E	SJU Tract H #31	Bly	Active
Texaco	G. D. Riggs "B" #8	330' FNL & 1650' FEL	Sec. 1 (B), T-26S, R-37E	SJU Tract G #31	Bly-Lg Mat	Active
Texaco	G. D. Riggs "A" #3	330' FNL & 2310' FWL	Sec. 1 (C), T-26S, R-37E	Not In Unit	Lang. Mattix	Active
Texaco	G. D. Riggs "B" #7	1650' FNL & 330' FEL	Sec. 1 (H), T-26S, R-37E	Not In Unit	Lang. Mattix	Shut-in
Rice Engineering	WD-H-2 Justis SWD	1980' FNL & 660' FEL	Sec. 2 (H), T-25S, R-37E	Not in Unit	Grbg-SA	Active SWD
Westbrook	Buffington "C" #1	430' FSL & 330' FWL	Sec. 18 (M), T-25S, R-38E	Not In Unit	Bly	P&A'd

C-108
Exhibit VI
Area of Review Well Data

Operator	Well	Location	Sec-T-R	Proposed Well No.	Field	Status
Texaco	C. E. Penny Fed #5	990' FNL & 330' FWL	Sec. 19 (D), T-25S, R-38E	Not In Unit	Ellenburger	Shut-In
Texaco	C. E. Penny Fed #7	825' FNL & 330' FWL	Sec. 19 (D), T-25S, R-38E	SJU Tract I #19	Bly	Active
Texaco	C. E. Penny Fed #4	2310' FNL & 330' FWL	Sec. 19 (E), T-25S, R-38E	SJU Tract I #20	Tb/Dkd	Active
Texaco	C. E. Penny Fed #6	1980' FNL & 330' FWL	Sec. 19 (E), T-25S, R-38E	Not In Unit	Bly	P&A'd
Meridian	Buffington B 4-D	2180' FSL & 330' FWL	Sec. 19 (L), T-25S, R-38E	SJU Tract I #21	Bly	Active
Texaco	Buffington B 2-D	1650' FSL & 330' FWL	Sec. 19 (L), T-25S, R-38E	Not In Unit	Tb/Dkd	Active
Meridian	Buffington B 3-D	330' FSL & 330' FWL	Sec. 19 (M), T-25S, R-38E	SJU Tract I #22	Bly-Tb/Dkd	Active
Texaco	Buffington B 1-D	660' FSL & 330' FWL	Sec. 19 (M), T-25S, R-38E	Not In Unit	Ellenburger	P&A'd
Texaco	Hobbs A #7	467' FNL & 467' FWL	Sec. 30 (D), T-25S, R-38E	SJU Tract I #23	Bly-Tb/Dkd	Active
Texaco	Hobbs A #5	330' FNL & 330' FWL	Sec. 30 (D), T-25S, R-38E	Not In Unit	Montoya	P&A'd
Texaco	Hobbs A #6	1650' FNL & 330' FWL	Sec. 30 (E), T-25S, R-38E	SJU Tract I #24	Bly-Tb/Dkd	Active
MW Petroleum	State AJ #5	2310' FSL & 330' FWL	Sec. 30 (L), T-25S, R-38E	SJU Tract I #25	Bly-Paddock	Shut -In
Fina Oil & Chemical	White Fang #1	456' FSL & 950' FWL	Sec. 30 (M), T-25S, R-38E	Not In Unit	Ellenburger	P&A'd
MW Petroleum	State AJ #6	330' FSL & 330' FWL	Sec. 30 (M), T-25S, R-38E	SJU Tract I #260	Bly-Fuss	Active
MW Petroleum	State AJ #7	660' FSL & 1650' FWL	Sec. 30 (N), T-25S, R-38E	Not In Unit	Bly	P&A'd
ARCO	Ginsberg Federal #9	350' FNL & 330' FWL	Sec. 31 (D), T-25S, R-38E	SJU Tract I #27	Bly-Fus-T/D	Active
ARCO	Ginsberg Federal #11	1815' FNL & 330' FWL	Sec. 31 (E), T-25S, R-38E	SJU Tract I #28	Bly-Tb/Dkd	Active
Fina	Ginsberg Federal #13	1980' FSL & 1650' FWL	Sec. 31 (K), T-25S, R-38E	Not In Unit	Bly	Shut-In
ARCO	Ginsberg Federal #10	1980' FSL & 330' FWL	Sec. 31 (L), T-25S, R-38E	SJU Tract I #29	Bly	Active
ARCO	Ginsberg Federal #8	660' FSL & 660' FWL	Sec. 31 (M), T-25S, R-38E	SJU Tract I #30	Bly	Active
Maralo	M. D. Self #5	330' FNL & 330' FWL	Sec. 6 (D), T-26S, R-38E	Not In Unit	Bly	Active
Maralo	M. D. Self #6	1750' FNL & 330' FWL	Sec. 6 (E), T-26S, R-38E	Not In Unit	Bly	Active

WELLBORE SCHEMATIC



Hodges B #5

Oxy USA Inc.
1650' FSL & 1650' FWL (K)
Sec 1, T-25S, R-37E, Lea Co., NM
KB-3123'
Spudded 02/21/62
Completed 04/21/62

13 3/8" casing @ 498'.
Set w/540 sxs cmt. Circ.

TOC @ 856' by calc.

9-5/8" casing @ 3405'.
Set w/3400 sxs cmt. Circ.

Sqzd Blinebry perfs 5208' to 5793'.

Devonian perfs 7147' to 7199'.

8-3/4" hole.
7" csg @ 7250' w/910 sxs cmt.

PBD @ 7216'

TD @ 8500'.

HODGES "B" #5

LOCATION: 1650' FSL & 1650' FWL (K), SEC. 1, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: OXY

BLM TRACT NUMBER: **API NUMBER:** 3002511386

SPUD DATE: 2/21/62

KB: 3123' GL: 3114' TD: 8500' PBTD: 7216'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			498'	540 sxs cmt, circ
9-5/8"			3405'	3400 sxs cmt, circ (TOC @ 856' - calc)
7"			7250'	910 sxs cmt

LOGS:

Date	Company	Log Name

DST's:

1	7051-7111'	Op 2 hrs 45 min, rec 20' mud, 45" ISIP/128, FP 57-57, 90" FSIP/163
2	7153-78'	Op 4 hr, 45 min, GTS in 9 min, TSTM, rec 4946' oil, Grav 35.5, + 220' sul wtr., 45" ISIP/2572, FP 302-1426, 90" FSIP/2572
3	8290-8307'	Op 1 hr, rec 35' mud, 40" ISIP/416, FP 9-4, 90" FSIP/235

INITIAL COMPLETION: Perf: 52/7186-99', swbd 24 BLO/2 hrs., Flwd 137 BNO/6 hrs., 24/64" ck, flwd 463 BOPD + 29.52 BW 24/64" ck, Gravity 34.9, GOR 1617, TP 150#

INITIAL COMPLETION DATE: 4/21/62

HODGES "B" #5

TREATMENTS AND WORKOVERS

3-5-62 TD 3400', rng csg

3-12 Drlg 4735' ls

3-20 TD 5775', prep to drill
Cored: 5670-5720', rec 50' dolo w/scatt shows, BO & G & Wtr
Cored: 5720-74.5', rec 54' dolo w/anhy incls, w/scatt. poor poro, BO & W

3-27 Drlg 7017' dolo

4-3 Drlg 7450' dolo, ch

4-10 Drlg 8123' ls, dolo

4-16 TD 8500' dolo, WOC

4-23 TD 8500' dolo, tstg

(Original completion 4-19-62 thru (Devonian) Perfs 7186-99', OTD 8500', PBD 7140')

5-3-76 Perf (Blinebry @ 5208', 5219', 5221', 5225', 5233', 5235', 5239', 5241', 5245', 5252', 5258', 5265', 5279', 5288', 5303', 5306', 5310', 5321', 5337', 5341', 5352', 5360', 5364', 5366', 5368' w/1 SPI
Acid (5208-5368') 3000 gals
Frac (5208-5368') 30,000 gals wtr + 41,250# sd
Ppd 54 BO + 6 BW in 24 hrs (5208-5368')
Perf (Blinebry) @ 5421', 5438', 5445', 5474', 5493', 5506', 5520', 5530', 5539', 5549', 5564', 5581', 5607', 5616', 5641', 5669', 5681', 5693', 5710', 5715', 5728', 5736', 5750', 5773', 5793' w/2 SPI
Acid (5421-5793') 750 gals
Frac (5208-5793') 60,000 gals wtr + 84,000# sd

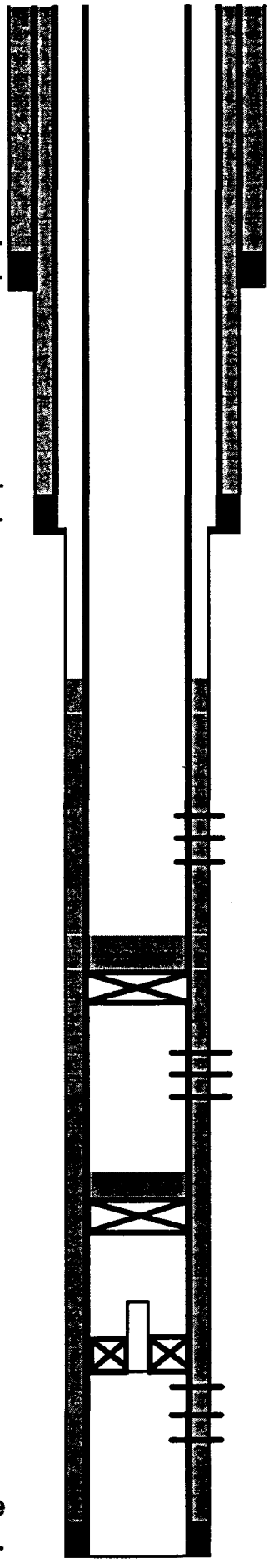
5-8-76 Completion issued

(Original completion 4-19-62 thru Devonian perfs 7186-99'; OTD 8500'; OPB 7216'; OWWO & Re-Cmp 2-24-76 thru (Blinebry) Perfs 5208-5793'

8-9-82 Complete CO to 7216', Sqzd (5208-5793') 400 sxs DOC
Perf (Devonian) 7147-72', Acid (7147-99') 1500 gals

8-14-82 Completion issued

WELLBORE SCHEMATIC



Hodges B #2

Oxy USA Inc.
1980' FSL & 330' FWL (L)
Sec 1, T-25S, R-37E, Lea Co., NM
KB-3128'
Spudded 09/15/61
Completed 11/09/61

13 3/8" casing @ 505'.
Set w/500 sxs cmt. Circ.

9-5/8" casing @ 3400'.
Set w/2640 sxs cmt. Circ.

TOC @ 4480' by TS

Fusselman perfs @ 6955' to 7131'.

PBD @ 7864'
CIBP @ 7900' w/5 sxs cmt on top

Sqzd McKee Perfs @ 7993' to 8090'

CIBP @ 8170' w/35 sxs cmt on top

Model D Packer @ 8350'

Sqzd Ellenburger Perfs @ 8400' to 8430'

8 1/4" hole
7" csg @ 8457' w/600 sxs cmt.

TD @ 8442'.

HODGES "B" #2

LOCATION: 1980' FSL & 330' FWL (L), SEC. 1, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: OXY USA, INC.

BLM TRACT NUMBER: **API NUMBER:** 3002511394

SPUD DATE: 9/15/61

KB: 3128' GL: TD: 8442' PBTD: 7864'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			505'	500 sxs cmt, circ
9-5/8"			3400'	2640 sxs cmt, circ (TOC @ 4480' - TS)
7"			8457'	600 sxs cmt

LOGS:

Date	Company	Log Name

DST's:

1	5250-5317'	Op 1 hr, rec 500' SO&GCM, 30" ISIP/245, FP 100-200, 30" FSIP/355
2	5400-74'	Op 2-1/2 hrs, GTS 5 min, gas vol 375 MCF, rec 400' GCM, 30" ISIP/2500, FP 250-250, 30" FSIP/2425
3	5980-6027'	Op 2-1/2 hrs, rec 1100' GCM, 30" ISIP/550, FP 250-525, 30" FSIP/900
4	6100-6154'	Op 2-1/2 hrs, rec 5' free oil + 790' GCM, 30" ISIP/2585, FP 233-465, 30" FSIP/2994
5	7000-72'	Op 3 hrs, GTS 20 min, gas vol 1.8 MCF, rec 250' BS & oil, 850' free oil & 1000' O&GCM + 130' OC sul wtr, 30" ISIP/2582, FP 260-780, 30" FSIP/2520
6	7070-91'	Op 3 hrs, GTS 12 min, gas vol 314 MCF, rec 2310' oil + 1000 BS&W & 500' O&GCM + 200' sul wtr, 30" ISIP/2700, FP 1050-1225, 30" FSIP/2650, Gravity 34.5
7	7205-45'	Op 2-1/2 hrs, rec 100' GCM + 3261' sul wtr, 30" ISIP/2425, FP 580-1458, 30" FSIP/1710

HODGES "B" #2

8	7960-8040'	Open 5 hrs 15 mins, MTS 3 hrs, OTS 3 hrs 15 min flwd 24.75 BO 1st 30 min, flwd 13.04 BO 2nd 30 min, Flwd 1.8 BO 3rd 30 min, flwd by heads last 30 min, rec 2448' oil, 300' BS, 150' wtr & 500' O&GCM, 30" ISIP/3145, FP 710-865, 30" FSIP/2405
9	8385-8442'	Op 4 hrs 25 min, GTS 5 min, MTS 2 hrs 5 min, OTS 2 hrs 25 min, flwd 61.2 BO in 2 hrs, RO 16 BO, .5' BBS&W, Gravity 45, rec 40' wtr below sub, 30" ISIP/2775, FP 500-1200, 30" FSIP/2725

INITIAL COMPLETION: IP: (Ellenburger) 8400-30' Flwd 396 BOPD 24/64" ck, GOR 757, Gravity 44.5, FTP 180#

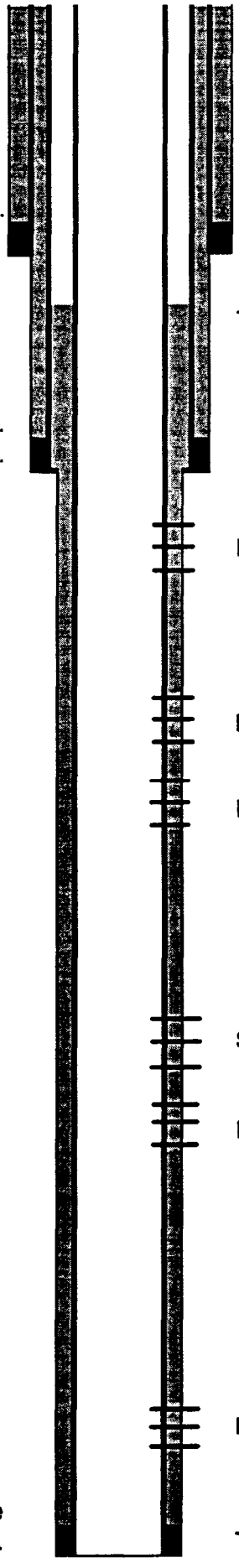
IP: (McKee) 7993-8090' Flwd 370 BOPD 24/64" ck, GOR 811, Gravity 42.5, TP 390#

INITIAL COMPLETION DATE: 11/9/61

TREATMENTS AND WORKOVERS

9-18-61	Drlg 1002' rb
9-25	TD 3400', rng csg
10-2	Drlg 4360' ls, sd
10-9	TD 6027', prep to DST
10-16	TD 7072', prep to core
10-23	TD 8040', prep to DST Cored: 7073-92', rec 9' dolo highly frac, few vugs, fair show Cored: 7082-91', rec 9' same Cored 7887-99', rec 11' (10' shly sd & 1' green sh) Cored: 7989-8040', rec 30.5' (15' friable sd w/good show, 4.5' shly sd, 11' green sh)
10-30	TD 8442', rng logs Cored 8040-91', rec 51' (135' friable sd w/good show, 7.5' shly sd, 11' tight sd, 19' gr sh)
11-6	TD 8457', PB 8456', prep to treat; SLM 8442-8457 Perf Ellenburger: 120/8400-30', swbd 27 BM/3 hrs, swbd 24 BO + 26 BF/24 hr
11-13	Washed perfs 8400-30 w/1000 MA; Swbd & flwd 33 BLO + 24 BAW/3 hrs; Set BP @ 8150'. Perf (McKee) 22/7993-8004', 22/8015-26', 26/8059-72', 10/8085-90', nat.

WELLBORE SCHEMATIC



Hodges B #3

Oxy USA Inc.
1880' FSL & 330' FWL (L)
Sec 1, T-25S, R-37E, Lea Co., NM
KB-3133'
Spudded 11/16/61
Completed 01/09/62

13 3/8" casing @ 503'.
Set w/500 sxs cmt. Circ.

TOC @ 1951' (Calculated)

9-5/8" casing @ 3400'.
Set w/2550 sxs cmt. Circ.

Blinebry Perfs @ 5082' to 5420'

Blinebry perfs 5460' to 5536' (Inactive)

Perfs @ 5558' to 5594' (Inactive)

Sqzd Perfs @ 5956' to 6116'

Packed Drinkard Perfs @ 6067' to 6100'

Fusselman perfs 7036' to 7150' (Inactive)

8 1/4" hole
7" csg @ 7220' w/750 sxs cmt.

TD @ 7220'.

HODGES "B" #3

LOCATION: 1650' FSL & 1650' FWL (K), SEC. 1, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: OXY USA, INC.

BLM TRACT NUMBER: **API NUMBER:** 3002511383

SPUD DATE: 11/16/61

KB: 3133' GL: TD: 7220' PBTD:

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			503'	500 sxs cmt, circ
9-5/8"			3400'	2550 sxs cmt, circ (TOC @ 1951' - Calc)
7"			7220'	750 sxs cmt

LOGS:

Date	Company	Log Name

DST's:

1	5475-5550'	Op 2 hr 20 min, GTS 1 min, gas vol 72.6 MCF, rec 135' GCM, 30" ISIP/2335, FP 85-100, 30" FSIP/2165
2	5550-5625'	Op 2-1/2 hrs, GTS 2 min, gas vol 38.8 MCF, rec 130' SGCM, 30" ISIP/1845; FP 116-116, 30" FSIP/1620
3	5680-5750'	Op 4 hr, GTS 34 min, TSTM, rec 3' O&GCM + 49' SGCM, 30" ISIP/1056, FP 25-25, 30" FSIP/1056
4	6920-7000'	Op 1 hr, rec 30' mud, 30" ISIP/17, FP 80-80, 30" FSIP/105
5	7105-75'	Op 4 hr, GTS 12 min, TSTM, rev circ 4500' oil, rec 390' O&GC sul wtr, 30" ISIP/2720, FP 170-1440, 30" FSIP/2580

INITIAL COMPLETION: IP: (Fusselman) 7118-80' Flwd 365.2 BOPD 24/64" ck, TP 425#

IP: (Drinkard) 6067-6100' Flwd 839 BOPD 32/64" ck, GOR 337, Gravity 35.2, TP 190#

INITIAL COMPLETION DATE: 1/9/62

HODGES "B" #3

TREATMENTS AND WORKOVERS

11-20-61 Drlg 2280' anhy, salt

11-27 TD 3400', WOC

12-4 TD 5625', on DST

12-14 Drlg 6903

12-19 TD 7220', prep to perf;

12-26-61 TD 7220', Tstg Drinkard
Perf 48/7118-30', 120/7150-80', tr. 500 AC, swbd 30 BO/7 hr., treated 5000 AC, swbd load & flwd 344 BO in 8.5 hrs 24/64" ck, Set BP @ 6239'; Perf 32/5956-64', 48/6016-28', 48/6038-50', 132/6067-6100', 24/6110-16', 64/6142-58', 56/6170-84', 24/6190-96', tr. 500 MA, swbd 28 BLO + 7 BAW/3-1/2 hrs; re-treated 10,000 gals acid, flwd 48 BO + 15 BAW/6 hrs., 24/64" ck

1-2 Tstg; Drinkard flwd 198 BO + 172 BW & 35 BAW/24 hrs., 32/64" ck; sq perfs 6142-96 w/125 sxs; set BP @ 6128; re-perf: 32/5956-64', 48/6016-28', 48/6038-50', 132/6067-6100', 24/6110-16', swbd 25 BO in 3 hrs & swbd dry, treated 500 gal MA, swbd 41 BO + 8 BAW/6 hrs. Flwd 21 BO + 4 BAW/2 hr, 3/4" ck

1-8 Tstg; Swbd 28 BF/5 hrs (10-18% wtr), re-sq perfs 5956-6115 w/200 sxs, BP @ 6130, re-perf: 132/6067-6100, swbd 25 BO/5 hr & swbd down. Trtd 5000 AC, swbd 32 BLO & 15 BAW/5 hrs; flwd 241 BNO + 64 BAW/6 hrs 32/64" ck, TP 225

1-15 Prep to test Blinebry; BP @ 5460'; Perf: 16/5558-62', 56/5580-94', Swbd 41 BF/6 hrs & swbd dry. Tr 500 MA, Swbd 42 BLO + 6 BAW/5 hrs & swbd dry, re-treated 2500 AC, flwd 41 BLO + 35 BAW & swbd dry; Perf 24/5460-66', 44/5504-15', 20/5531-36'

1-18 TD 8524', PB 8486', prep to perf; Sqz perfs 5460-70' w/500 sxs

1-22 TD 7220, SI; Blinebry flwd thru csg, no gas

1-29 Swbg Blinebry; Set pkrs at 5441', 5898', 7070', treated Blinebry perfs 5460-5536' with 2500 gals acid, flwd 19 BLO + 14 BAW/1 hr & died

2-5 SI; (Blinebry) swbd 38.5 BAW/10 hrs, swbd 5.5 BNO/10 hr (38% wtr); re-tr 5460-5536', w/10,000 Ac., swbd 6.5 BNO + 6.5 BAW/10 hrs

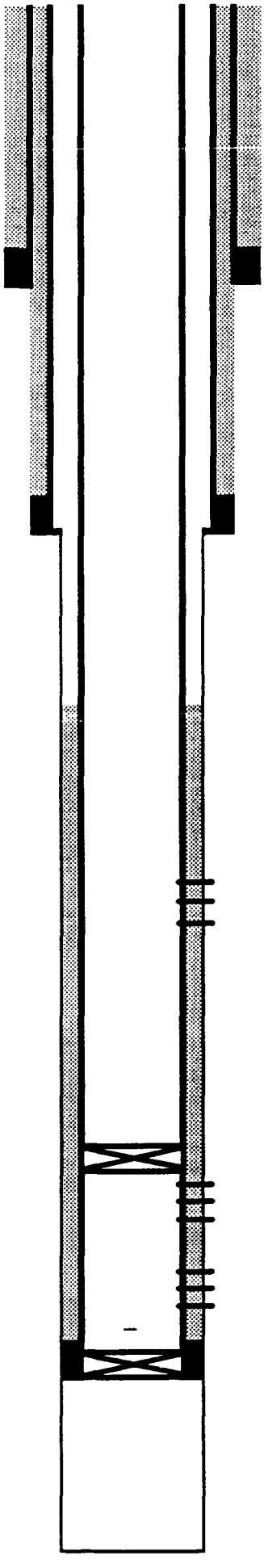
(NEW WORK DONE) - (Drinkard Zone Packed off)
Perf 10/7092-97', 12/7066-72', 14/7050-57', 10/7036-41', A/9500;
Perf 32/5082-98', 34/5164-81', 14/5191-98', 20/5301-11', 12/5332-38', 20/5374-84', 20/5410-20', A/1750, WF/37,000 (65,000)

Fusselman 7036-7150' P 140 BO/24 hrs, GOR 1000, A/9500
Blinebry 5082-5420', F 22 BO/24 hrs, GOR 5500, A/1750, WF/37,000

WELLBORE SCHEMATIC

Hodges B #4

Oxy USA Inc.
990' FSL & 660' FWL (M)
Sec 1, T-25S, R-37E, Lea Co., NM
KB-3131'
Spudded 1/23/62
Completed 3/14/62



13 3/8" casing @ 500'.
Set w/500 sxs cmt. Circ.

9-5/8" casing @ 3399'.
Set w/2750 sxs cmt. Circ.

TOC @ 3737' by calc..

Blinebry perfs 5048'-5671'.

PBD @ 6008'.

Squeezed Drinkard Perfs 6099'-6132'

Sqzd Devonian perfs 7010'-7146'.
PBD @ 7206'.

8 1/4" hole
7" csg @ 7250' w/500 sxs cmt.

TD @ 8982'.

Well History

Well Name: Hodges B #4

Legal Location: 990' FSL & 660' FWL (M), Sec 1, T-25S, R-37E, Lea Co., New Mexico

Operator: Oxy USA Inc.

BLM Tract Number: Not In Unit

API Number: 3002511384

Spud Date: 1-23-62 KB: 3131' GL: 3116' PBD: 7206' TD: 8982'

Casing:

Size (in)	Wt. (lb/ft)	Depth (ft)	Sxs Cmt	Top of Cmt
13-3/8		500	500	Circ
9-5/8		3399	2750	Circ
7		7250	500	3737'

Logs: Schlumberger Sonic, LL, MLL, Dipmeter 3-62

Cores: 5900'-6189' (Drinkard)--Recovered 288'dolomite. BO&W in bottom 40'.
6189'-6247' (Drinkard)--Recovered 57' dolomite w/scattered BO&W in 19'.
8848'-69' (Ellenburger)--Recovered 20.5' of gray sandy shale.

DST's:

	Date	Formation	Depth	Recovery
1	2-26-62	Drinkard	6855'-6937'	Open 4.5', GTS 90", TSTM. Rec 30' oil + 1230' DM. 30" ISIP 2805#, FP 210-530#, 30" FSIP 1915#.
2	3-5-62	Devonian	7200'-80'	Open 2.5', rec 316' GCM + 800' salt wtr. 30" ISIP 2610#, FP 120-523#, 30" FSIP 1620#.
3	3-5-62	Fusselman	7452'-7542'	Open 1', rec 90' DM. 45" ISIP 205", FP 140-160#, 30" FSIP 205#.
4	3-5-62	Fusselman	7750'-7800'	Open 1', rec 1500' DM + 5000' salty sulfur wtr. 45" ISIP 2620#, FP 2100-2600#, 45" FSIP 2620#.
5	3-19-62	Ellenburger	8880'-8982'	Open 3', rec 10' oil + 558 HO&GCM & 6132' salt wtr. 45" ISIP 2925#, FP 915-2925#, 90" FSIP 2925#.

Current Status: Active Blinebry Producer

Initial Completion Date: 5-11-62 Zone(s): Drinkard & Devonian

Perfs: Drinkard 6099'-6101' (8), 6106'-08' (8), 6123'-32' (36)
Devonian 7010'-42' (128), 7104'-08' (16), 7124-28 (16), 7134'-7146' (48)

Treatments: Acidized Drinkard with 13,500 gals.
Acidized Devonian with 22,500 gals.

Initial Potentials:

Drinkard

110 BOPD	0 MCFD	3 BWPD
42.1º gravity	Pumping	

Devonian

72 BOPD	0 MCFD	0 BWPD
42.4º gravity	Pumping	

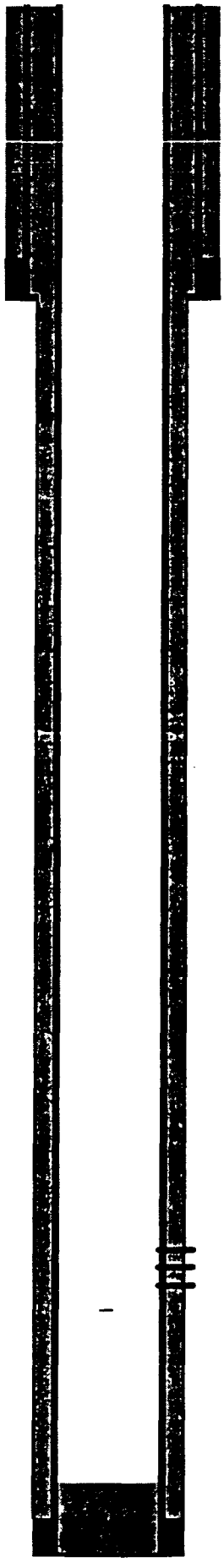
Treatments and Workovers:

4-2-62 Perf'd Drinkard 6123'-26' (212), 6128'-31' (16). Acidized with 500 gals. Swbd 17 BW in 4 hours. Sqzd perfs 6123'-32' with 100 sxs cmt. Acidized 6145'-48' with 500 gals. Swbd 38 BLO in 21 hrs. Squeezed with 50 sxs of cement.

11-16-74 Plugged back to 6008'. Perf'd Blinebry @ 5048', 53, 55, 61, 77, 87, 89, 5100', 12, 17, 21, 35, 62, 66, 71, 85, 5211', 27, 36, 45, 56, 73, 85, 98, 5301', 38, 52, 54, 65, 94, 5401', 09, 31, 32, 63, 5507', 22, 29, 48, 80, 94, 5609, 24, 62, 71' (2 SPF--92 perfs total). Acidized with 1,500 gals. Frac'd with 80,000 gals water & 120,000 # sand. IP--flowed 115 BOPD & 96 BLW. GOR=874. FTP=300# on 16/64" ck. Gravity=35.9º.

July 1, 1992
hodb4doc

WELLBORE SCHEMATIC



Hodges B #6

Oxy USA Inc.
660' FSL & 1650' FWL (N)
Sec. 1, T-25S, R-37E, Lea Co., NM
KB--3128'
Spudded 3-18-75
Completed 5-5-75

12-1/4" hole.
8-5/8" casing @ 967'.
Set w/450 sxs cmt. Circ.

Blinebry perfs @ 5175' to 5576'.

7-7/8" hole.
5-1/2" csg @ 6300'.
Set w/1350 sxs cmt. Circ.

PBD @ 6260'

TD @ 6300'

Well History

Well Name: Hodges B #6

Legal Location: 660' FSL & 1650' FWL (N), Sec 1, T-25S, R-37E, Lea Co., New Mexico

Operator: Oxy USA Inc.

BLM Tract Number: Not in Unit

API Number: 3002524961

Spud Date: 3/18/75 KB: 3128' GL: 3116' PBD: 6260' TD: 6300'

Casing:

Size (in)	Wt. (lb/ft)	Depth (ft)	Sxs Cmt	Top of Cmt
8-5/8	24	967	450	Circ
5-1/2	14,15.5	6300	1350	Circ

Logs: Schlumberger CNL-FDC, DLL, MSFL 4-22-75

Current Status: Active Blinebry Producer

Initial Completion Date: 5-5-75 Zone(s): Blinebry

Perfs:Blinebry--5175', 91, 99, 5213, 18, 39, 49, 55, 5302, 11, 21, 34, 96, 5412, 18, 22, 31, 36, 40, 45, 49, 53, 57, 64, 76, 5524, 76 (2 SPI--54 total perfs)

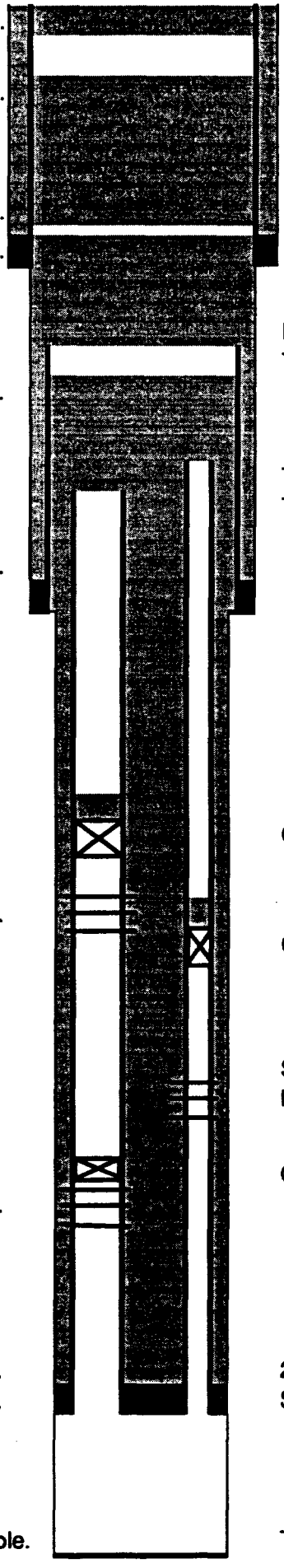
Treatments: Acidized with 3,500 gals 15% NEA. Frac'd w/60,000 gals wtr & 73,500 # sand.

Initial Potentials: 110 BOPD 110 MCFD 0 BWPD 1000 CF/BO GOR

36.7º Gravity 50 PSIG FTP 28/64" Choke

June 30, 1992
hodb6.doc

WELLBORE SCHEMATIC



Cmt Plug (10 sxs) @ Surface.

Cmt Plug (100 sxs) @ 110' to 240'.

13 3/8" casing @ 236'.
Set w/200 sxs cmt. Circ.

Cmt plug (50 sxs) @ 1650' to 1800'.

9-5/8" casing @ 3470'.
Set w/325 sxs cmt.

Fusselman Perfs 6945' to 6984'.

Ellenburger Perfs @ 8180' to 8205'.

4-1/2" casing @ 8489'.
Set w/1500 sxs cmt.

7-7/8" hole.

New Mexico "BM" State #1

Exxon
2310' FSL & 330' FEL (I)
Sec 2, T-25S, R-37E, Lea Co., NM
KB-3127'
Spudded 09/24/61
Completed 12/19/61

Pea Gravel & Sand Plug @ 246' to 1540'
Top of 9-5/8" csg @ 1577'

Top of 2-7/8" csg @ 1800'
Top of 4-1/2" csg @ 1869'

CIBP @ 6700' w/35' cmt

CIBP @ 7900' w/10' cmt

Stuck tubing @ 8082'
McKee Perfs 8016' to 8128'

CIBP @ 8160'.

2-7/8" tubing @ 8490'.
Set w/1500 sxs cmt.

TD @ 8524'.

NEW MEXICO "BM" STATE #1

LOCATION: 2310' FSL & 330' FEL (I), SEC. 2, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: EXXON

BLM TRACT NUMBER: **API NUMBER:** 3002511406

SPUD DATE: 9/24/61

KB: 3127' GL: TD: 8524' PBTD:

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			236'	200 sxs cmt, circ
9-5/8"			3470'	325 sxs cmt, circ (TOC @ 2648' - Calc)
4-1/2"			8489'	1500 sxs cmt, (TOC @ 1869' - TS)
2-7/8"			8490'	1500 sxs cmt

LOGS:

Date	Company	Log Name

DST's:

1	4885-4968'	Op 2 hr, GTS 4 min, gas vol 7 MCF, rec 140' GC sul wtr, 60" ISIP/1860, FP 100-100, 1 hr FSIP/1520
2	6915-85'	Op 2-1/2 hrs, GTS 6 min, TSTM, rec 73 BO + 8 B sul wtr, 45" ISIP/2520, FP 120-940, 45" FSIP/2060
3	7004-76'	Op 1 hr 30 min, rec 890' sul wtr, 30" ISIP/2660, FP 100-500, 30" FSIP/2400
4	7790-7917'	Op 45 min, rec 95' mud, 30" ISIP/302, FP 116-125, 30" FSIP/139
Re-DST	7885-8065'	Op 3 hr, rec 1050' mud, 30" ISIP/1480, FP 120-460, 30" FSIP/700. Att. DST 8360-8406', stuck tool, drill pipe parted
5	8377-8486'	Op 3 hr, GTS 5 min, TSTM, RO 8 BO&GCM, + 42 BO, 60" ISIP/2746, FP 418-1458, 60" FSIP/2654
6	8486-8524'	Op 3 hr, rec 4000' gas in DP, 10' oil, 90' O&GCM & 558' sul wtr, 60" ISIP/2680, FP 100-120, 30" FSIP/2620

NEW MEXICO "BM" STATE #1

INITIAL COMPLETION: Fusselman (6965-84') F 157 BO, 630 GOR, Gravity 36.3°, CP 90#
McKee (8074-8103') F 113 BO, 1025 GOR, Gravity 43.6°, TP 75#

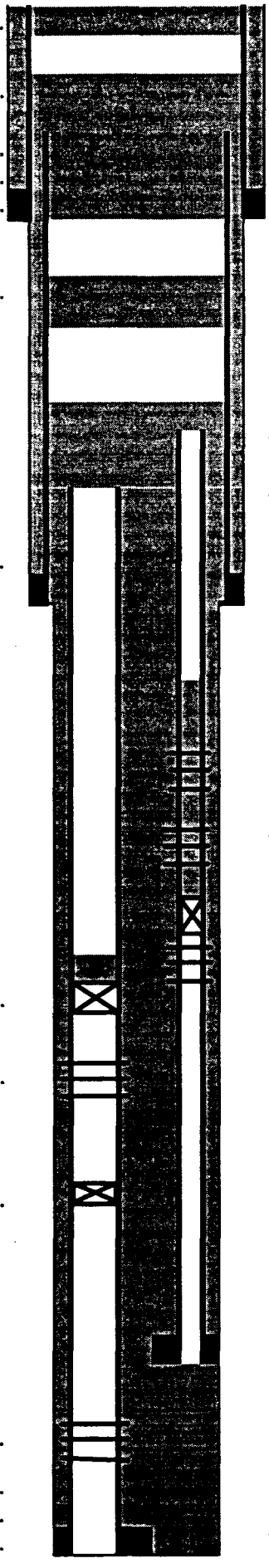
INITIAL COMPLETION DATE: 3/1/62

TREATMENTS AND WORKOVERS

3-70 Shot tbg in 2-7/8" csg @ 8082'. Set CIBP @ 7900' & spot 10' cmt cap. Perf'd Tubb/Drinkard in 4-1/2" csg @ 6945-48'. A/500 gals.

Set CIBP @ 6700 in 4-1/2" csg & 2-1/2" csg
Cut 2-7/8" @ 1800, cut off 4-1/2" csg @ 1869, 7-14-74.
Spot 50 sxs cmt plug 1800-1650'. Shot 5-1/2" - 9-5/8" csg @ 1577'. Dumped 10 yards pea gravel on csg. Ran wireline from gravel at 146' from surf. Spot 100 sxs cmt plug 340-110, spot 10 sxs plug at surf.
P&A'd 7-30-74

WELLBORE SCHEMATIC



Cmt Plug (10 sxs) @ Surface.

Cmt Plug (75 sxs) @ 140' to 240'.

Top of 9-5/8" csg @ 186'.
13 3/8" casing @ 199'.
Set w/200 sxs cmt. Circ.

Cmt plug (75 sxs) @ 1040' to 1140'.

9-5/8" casing @ 3436'.
Set w/450 sxs cmt.

CIBP @ 6845'.

Fusselman Perfs 6928' to 6971'.

CIBP @ 7150'.

Ellenburger Perfs @ 8451' to 8459'.

7-7/8" hole.
4-1/2" casing @ 8480'.
Set w/200 sxs cmt.

New Mexico "BM" State #2

Exxon
2160' FSL & 330' FEL (I)
Sec 2, T-25S, R-37E, Lea Co., NM
KB-3134'
Spudded 03/05/62
Completed 05/29/62
P&A'd 07/30/74

Plug @ 2560'
5 sxs cotton seed hull, 2 sxs wood fiber, 60 sxs cmt
Top of 2-7/8" csg @ 2670'

Top of 4-1/2" csg @ 3028.'

PBD @ 4700'

Sqzd Blinebry Perfs @ 5377' to 5553'

Tubb Perfs @ 5897' to 6032'

CIBP @ 6045'

Drinkard Perfs 6055' to 6068'

2-7/8" tubing @ 7490'.
Set w/1050 sxs cmt.

TD @ 8480'.

NEW MEXICO "BM" STATE #2

LOCATION: 2160' FSL & 330' FEL (I), SEC. 2, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: EXXON

BLM TRACT NUMBER: **API NUMBER:** 3002511407

SPUD DATE: 3/5/62

KB: 3134' GL: TD: 8480' PBTD: 4700'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			199'	200 sxs cmt, circ
9-5/8"			3436'	450 sxs cmt, circ
4-1/2"			8480'	200 sxs cmt
2-7/8"			7490'	1050 sxs cmt

LOGS:

Date	Company	Log Name

DST's:

1	6820-69'	Op 2 hrs, rec 32' mud, 60" ISIP/256; FP 72-72, 60" FSIP/765
2	8164-8212'	Op 1 hr, rec 5' OCM, 450' mud, 1 hr ISIP/3102, FP 140-351, 1 hr FSIP/2523
3	8443-80'	Op 2-1/2 hrs, GTS 15 min, TSTM, rev. circ 23 BO (2% BS&W) 1 hr ISIP/2754, FP 88-402, 1 hr FSIP/2610

INITIAL COMPLETION: Drinkard 6055-68', Flwd 46 BO, 17 BW, 1764 GOR, Gravity 32.5°, FTP 75#
Ellenburger 8451-59', Flwd 105 BO, 14 BW, 895 GOR, Gravity 43.2°, FTP 150#

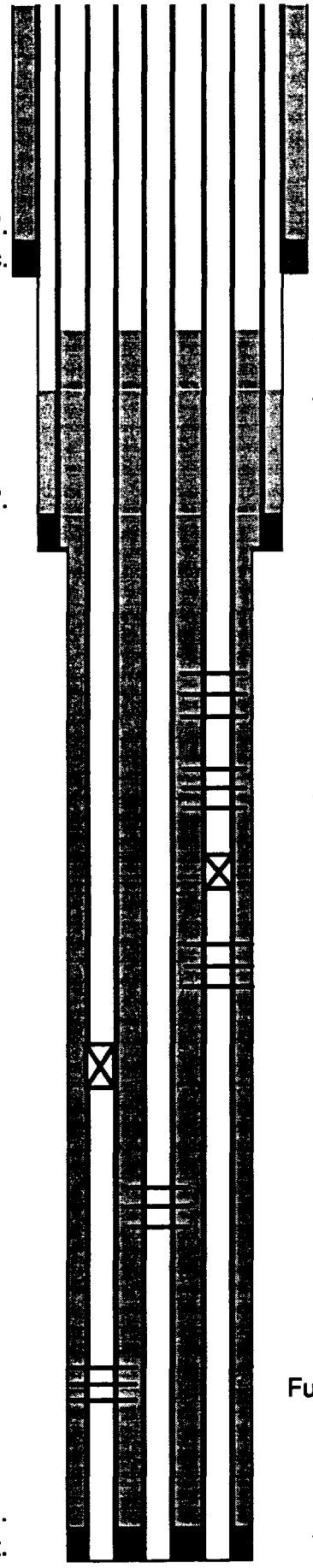
INITIAL COMPLETION DATE: 5/29/62

NEW MEXICO "BM" STATE #2

TREATMENTS AND WORKOVERS

Drinkard Perfs:	1/6055', 1/6062', 1/6068', A/1000 gals, SF w/1890 BO & 1890# sd
Ellenburger Perfs:	3/8451', 3/8459', A/500 gals
9-63	Set CIBP @ 6045'. Perf at 5897', 5901', 5907', 5913', 5921', 5928', 5932', 5955', 5976', 6014', 6017', 6032'. Squeezed perfs 5897-6023' w/50 sxs. Re-perf at 5897', 5901', 5907', 5913', 5921', 5928', 5932', 5955', 5976', 6014', 6017', 6032', 1 SPI, A/15,000 gals.
10-69 Blinebry Perf:	12/6928-34', 10/6966-71', A/3000 (Pf 5377-5553' packed off)
3-71	Sqzd Blinebry from 5377-5533', PBD in 2-7/8" @ 4700'. One sx cmt plug @ surface.
7-74	Ran & set 4-1/2" BP on wireline @ 6845' w/3 sxs cmt on top. Cut 4-1/2" csg at 3028', pipe free. Back off 2-7/8" csg, could not get string shot below 2671', pulled 83 jts 2-7/8" csg, spotted 45 sxs cmt plug @ 2670, 7-25-74. Spotted 5 sxs cotton seed hulls and 2 sxs wood fiber, followed by 60 sxs cmt plug tagged plug @ 2560'. Shot 9-5/8" csg @ 186'. Spot 75 sxs cmt plug 1140-1040', pumped plug, ck cmt plug at 1040, spot 75 sxs cmt plug 240-140. Spot 10 sxs cmt plug @ surface. P&A'd 7-30-74.

WELLBORE SCHEMATIC



State A-2 #2

Conoco
2310' FSL & 1650' FEL (J)
Sec 2, T-25S, R-37E, Lea Co., NM
KB-3162'
Spudded 08/29/62
Completed 11/25/62

13-3/8" casing @ 312'.
Set w/300 sxs cmt. Circ.

TOC @ 2292' (Calculated)

TOC @ 2339' (Calculated)

9-5/8" casing @ 3730'.
Set w/550 sxs cmt.

Blinebry Perfs @ 5128' to 5682'

Sqzd Tubb/Drinkard Perfs @ 5971' to 6048'

BP @ 6300'

Plugged Abo Perfs @ 6400' to 6593'

BP @ 6670'

Packed Off Devonian Perfs @ 6955' to 7049'.

Fusselman Perfs @ 7386' to 7390'

8-3/4" hole.
2-7/8" tbg @ 7515' w/1060 sxs cmt.

TD @ 7515'.

STATE A-2 #2

LOCATION: 2310' FSL & 1650' FEL (J), SEC. 2, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: CONOCO

BLM TRACT NUMBER: **API NUMBER:** 3002511402

SPUD DATE: 8/29/62

KB: 3162' GL: TD: 7515' PBTD:

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			312'	300 sxs cmt, circ
9-5/8"			3730'	550 sxs cmt, circ
2-7/8"			7515'	1060 sxs cmt,

LOGS:

Date	Company	Log Name

DST's:

1	5456-5603'	Open 1 hr, GTS 18 min, TSTM, rec 720' GCM, 30" ISIP/1250, FP 385-295, 30" FSIP/850
2	6034-6141'	Open 1 hr, GTS 37 min, TSTM, rec 750' SO&GCM, ISIP/635, FP 255-320, FSIP/405
3	6385-6550'	Open 2 hr, GTS 3 min at rate of 3000 MCF, rec 660' O&GCM, 360' oil, ISIP/2905, FP 385-490, FSIP/2820
4	6903-7023'	Open 1 hr 30 min, rec 90' oil, 360' HO&GCM, + 180' wtr, ISIP/1255, FP 295-295, FSIP/445
5	7085-7190'	Open 45 min, rec 90' mud, ISIP/110, FP 20-45, FSIP 65

INITIAL COMPLETION: Abo 6400-6593', Flwd 117 BOPD + 84 BW on 28/64" ck, Gravity 8214, CP 45#, TP 850#
Drinkard 5971-6048', Flwd 191 BOPD on 11/64" ck, GOR 293, Gravity 38.6, TP 310#
Devonian 6955-7049', Flwd 27 BO on 11/64" ck, GOR 1652', Gravity 38.1, TP 200#

INITIAL COMPLETION DATE: 11/25/62

STATE A-2 #2

TREATMENTS AND WORKOVERS

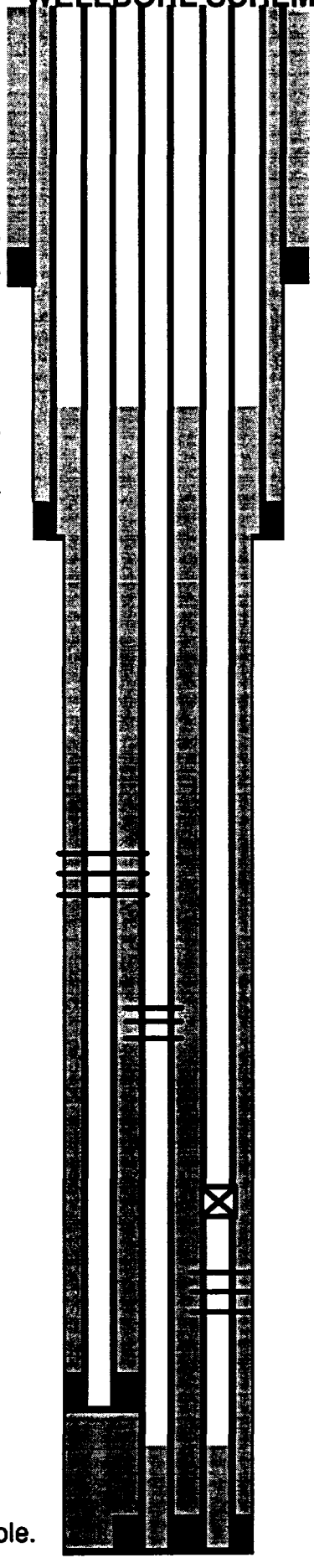
Perf (Fusselman) 8/7386-90', tr 1000 Ac
Perf (Devonian) 4/695-5-57, 8/6963-67, 6/6977-80', 8/7023-27', 8/7037-41', 8/7045-49', tr 5000 Ac
Perf (Drinkard) 6/5971-74', 6/5983-86', 6/5993-96', 6/6000-03', 6/6007-10', 6/6022-25', 6/6045-48', tr 4000 Ac.
Perf (Abo) 4/6719-21', 6/6737-40', 4/6768-70', 6/6776-79', tr 3000 MA
Had communication, sqz perfs 6955-7049/100 sxs. Set BP 6670'.
Perf (Abo) 8/6400-04', 4/6411-13', 4/6421-23', 6/6437-40', 16/6446-54', 4/6464-66', 4/6473-75', 4/6482-84', 4/6491-93', 4/6502-04', 4/6510-12', 4/6523-25', 4/6528-30', 4/5438-40', 6/6543-46', 4/6552-54', 4/6570-72', 4/6591-93'. Re-perf (Devonian) 4/7006-08', 8/7023-27', 8/703?-41, 8/7405-49', tr 500 Ac. Tr Abo perfs 6400-6593' w/6000 gal acid. Re-perf (Devonian) 4/6955-57', 8/6963-67', 6/6977-80', 18/6893-92', tr 1000 gal acid.

Set BP @ 6300, perf 1 shot at 5358', 5359', 5360', 5380', 5381', 5382', 5394', 5395', 5396', 5406', 5407', 5408', 5418', 5419', 5420', 5431', 5432', 5433', 5462', 5463', 5464', 5512', 5513', 5514', 5542', 5543', 5544', 5545', 5546', 5578', 5579', 5580', 5596', 5597', 5598', 5612', 5613', 5614', 5629', 5630', 5631', 5667', 5668' 5669', 5680', 5681', 5682'. Tr 2000 gal acid, SOF 17,600 gal + 23,900# sd.

WELLBORE SCHEMATIC

NM "BZ" St. #1

Texaco
1980' FSL & 2307' FWL (K)
Sec 2, T-25S, R-37E, Lea Co., NM
KB-3169'
Spudded 1/11/63
Completed 3/11/63



11-3/4" casing @ 258'.
Set w/300 sxs cmt. Circ.

TOC @ 2700' by TS.

8-5/8" casing @ 2500'.
Set w/1550 sxs cmt. Circ.

Blinebry perfs 5116'-5620'.

Tubb/Drinkard perfs 6031'-6097'.
(Inactive)

PBD @ 7000'

Devonian Perfs 7025'-7090'.
(Inactive)

2-3/8" tbg @ 7498'
Set w/1300 sxs cmt.
PBD @ 7503'.
2-7/8" tbg @ 7515' & 7515'
TD @ 7515'.

7-7/8" hole.

NEW MEXICO "BZ" NCT-10 #1

LOCATION: 1980' FSL & 2307' FWL (K), SEC. 2, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: TEXACO

BLM TRACT NUMBER: **API NUMBER:** 3002520566

SPUD DATE: 1/11/63

KB: 3169' GL: TD: 7515' PBTD: 7503'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
11-3/4"			258'	300 sxs cmt, circ
8-5/8"			2500'	1550 sxs cmt, circ
2-7/8"			7515'	1300 sxs cmt, (TOC @ 2700' - TS)
2-7/8"			7515'	1300 sxs cmt, (TOC @ 2700' - TS)
2-3/8"			7498'	1300 sxs cmt, (TOC @ 2700' - TS)

LOGS:

Date	Company	Log Name
2-9-63	Schlumberger	Sonic, IE

DST's:

INITIAL COMPLETION: (Drinkard) - 6031-6097', Flwd 168 BOPD + 21 BW, 18/64" choke, GOR 719, Gravity 36.5, TP 225#
(Blinebry) - 5572-5620', Flwd 252 BOPD, 12/64" choke, GOR 1328, Gravity 36.5
(Devonian) - 7025-90', Swbd 26 BO + 40 BW/24 hr. GOR TSTM, Gravity 37, TP 750#

INITIAL COMPLETION DATE: 3/11/63

TREATMENTS AND WORKOVERS

Devonian Perfs: 9/7025-34', 6/7072-78', 7/7083-90', swbd 44 BLO + 10 BNO & 50 bbls form wtr/18 hrs.

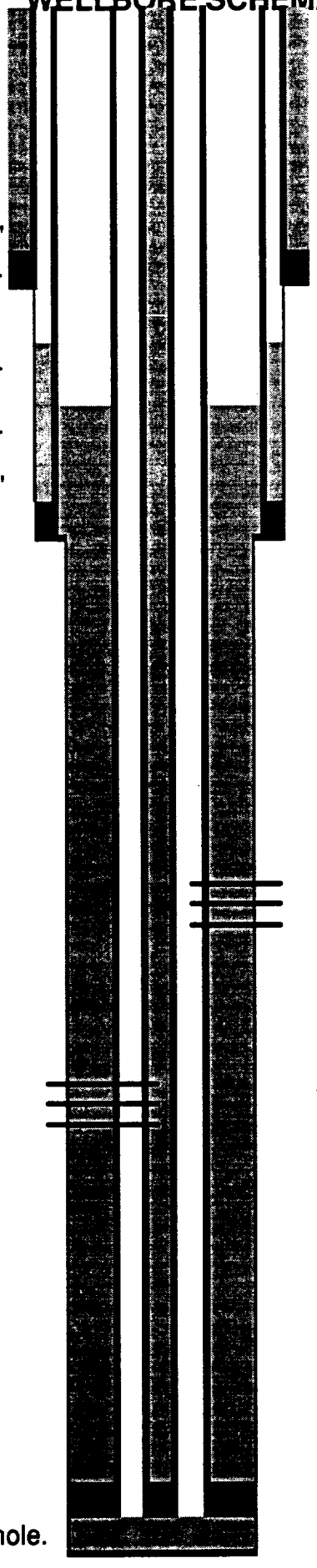
NEW MEXICO "BZ" NCT-10 #1

Abo Perfs:	1 shot at 6511', 6521', 6601', 6605', 6652', 6706', swbd 40 BLO + 72 BXW/12 hr & swbd down.
Drinkard Perfs:	1 shot at 6031', 6042', 6053', 6059', 6074', 6097', flwd 97 BLO + 104 BNO/48 hr 14/64" ch, TP 200#. Set ret at 6408', sqz perfs 6511-6706/50 sx; re-sqz perfs 6511-6706/75 sx; re-perf Abo 1 shot at 6511', 6521', 6601', 6605', tr. 500 MA, re-tr 500 gal reg. swbd dry. Re-tr 250 gal reg. Re-tr Abo perfs 6511-6605 w/1000 gal ac, swbd dry; sqzd perfs 6511-6605/50 sx. Tr Devonian 7025-90' w/2000 gals acid, swbd dry; re-tr 8000 gals acid. Perf Blinebry 8/5572-76', 4/5704-06', 8/5616-20', tr 500 Ac. SOF 10,000 gals + 10,000#. Sd frac Drinkard 6031-97' w/10,000 gals + 7500#, spearheaded by 1000 gal crude & 55 gal control flo.
Blinebry Perfs:	8 shots / 5116-5124'; 1 shot at 5130', 5134', 5135', 5137', 5140', 5145', 5146', 5148', 5151', 5153', 5157', 5160', 5164', 5166', 5169', 5171'; and 7 shots / 5174-81' Frac w/24,000 gals and 24,000# sand

WELLBORE SCHEMATIC

NM "BZ" St. #3

Texaco
1980' FSL & 989' FWL (L)
Sec 2, T-25S, R-37E, Lea Co., NM
KB-3178'
Spudded 7/11/63
Completed 8/17/63



11 3/4" casing @ 249'
Set w/350 sxs cmt. Circ.

TOC @ 1869' (calc).

TOC @ 2600' by TS.

8-5/8" casing @ 3500'
Set w/850 sxs cmt.

Blinebry perfs 5273' to 5691'.

Tubb/Drinkard Perfs 6008'-6187'.
(Shut-In 11-91)

PBD @ 6211'.

2-7/8" tbg @ 6243' & 6244'.
TD @ 6244'.

7-7/8" hole.

NM "BZ" STATE #3

LOCATION: 1980' FSL & 989' FWL (L), SEC. 2, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: TEXACO

BLM TRACT NUMBER: **API NUMBER:**

SPUD DATE: 7/11/63

KB: 3178' GL: TD: 6244' PBTD: 6211'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
11-3/4"			249'	350 sxs cmt, circ
8-5/8"			3500'	850 sxs cmt
2-7/8"			6243'	900 sxs cmt, (TOC @ 2600' - TS)
2-7/8"			6244'	900 sxs cmt, (TOC @ 2600' - TS)

LOGS:

Date	Company	Log Name

DST's:

INITIAL COMPLETION: (Blinebry) - 5644-5691', F 205 BOPD + 51 BW, 22/64" ck, GOR 887, Gravity 37.5, TP 310#
(Drinkard) - 6087-6187', F 124 BOPD + 36 BW, 18/64" ck, GOR 1134, Gravity 36.7, TP 285#

INITIAL COMPLETION DATE: 8/17/63

TREATMENTS AND WORKOVERS

7-15-63 Drlg 1874' anhy & salt

Perf Drinkard 1 shot at 6087', 6103', 6115', 6124', 6138', 6174', 6187', tr 500 MA, re-Tr 3500 gal acid, SOF 10,000 gal + 10,000# sd.
Perf Blinebry 1 shot at 5644', 5666', 5678', 5691', tr 500 MA, re-tr. 3500 gals reg., SOF 10,000 gal 10,000# sd

NM "BZ" STATE #3

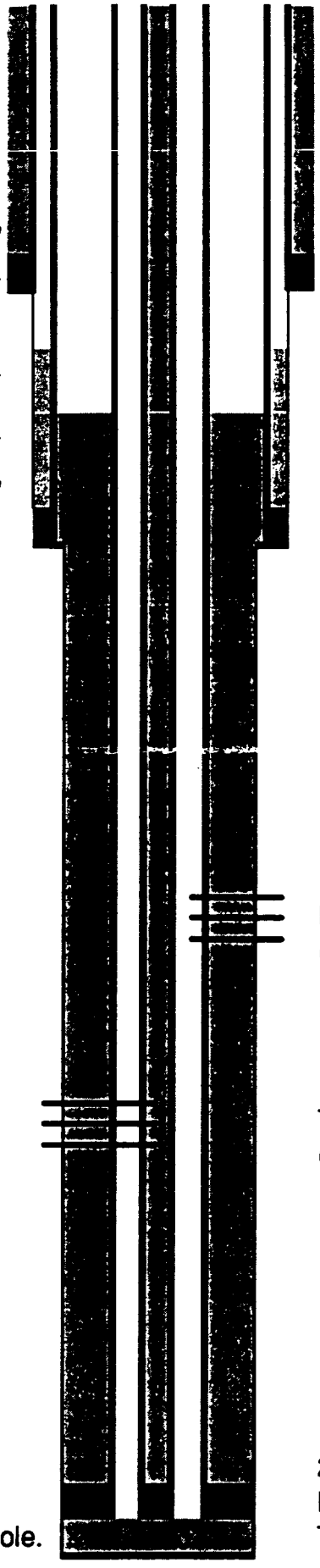
7-15-63
(Cont'd) Perf Blinebry 1 shot at 5644', 5666', 5678', 5691', tr. 500 MA, re-tr. 3500 gal reg., SOF 10,000 gal & 10,000# sd

(NEW WORK DONE)

PB 6075' and 5625'
Perf 6/5273-79' Blinebry, 1 @ 5281', 5282', 5308', 5312', 5321', 5322', 5323', 5324', 5352', 5398', 5399', 5416', 5418', 5483', 5484', 5488', 5489', 5490', 5523', 5524', 5525', 5555', 5559', A/2000 SF/20,000 + 20,000#

Perf 5/5192-97 Blinebry, Pf 1 @ 5221', 5222', 5226', 5229', 5231', 5234', 5236', 5239', 5249', 5250', 5251', 5252', SOF/24,000 (24,000) (5192-5605')

WELLBORE SCHEMATIC



NM "BZ" St. #4

Texaco
660' FSL & 989' FWL (M)
Sec 2, T-25S, R-37E, Lea Co., NM
KB-3154'
Spudded 8/22/63
Completed 10/22/63

11 3/4" casing @ 255'
Set w/350 sxs cmt. Circ.

TOC @ 893' (calc).

TOC @ 2673' (calc).

8-5/8" casing @ 3500'
Set w/850 sxs cmt.

Blinebry perfs 5273'-5595'.
(Shut-in 11-91)

Tubb/Drinkard Perfs 6002'-6083'.
(Shut-In 11-91)

2-7/8" tbg @ 6238' & 6240'..
PBD @ 6225'.
TD @ 6240'.

7-7/8" hole.

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: Blinebry & Tubb/Drinkard Shut-In 11-91.

INITIAL COMPLETION:

DATE: 10/19/63

ZONE: Blinebry & Tubb/Drinkard

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

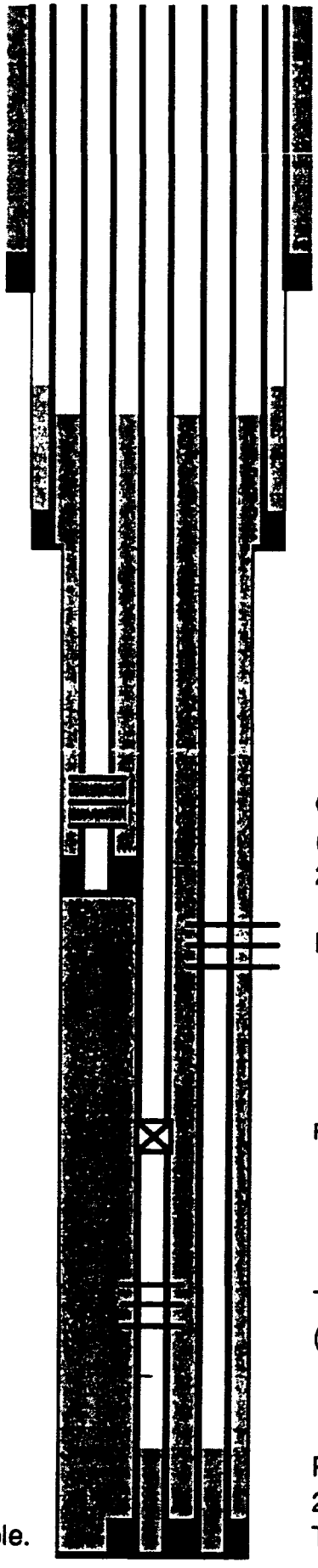
STIMULATION: Bly: Acidized 5640-72 w/3,000 gals. Frac'd w/10,000 gals & 10,000# sd.
Sqzd 5640-72 w/125 sxs. DO to 5660'. Re-acidize w/1,000 gals.
Re-frac 5640-72' w/5,000 gals LO & 3,100 #sd. Set CIBP @ 5620'
Acidize 5417'-5595' w/2,500 gals.
Tubb/Drinkard: Acidize 6002-83' w/3,500 gals. Acidize 6105-6151'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

INITIAL POTENTIALS:

Blinebry (5417'-5595')	37	BOPD	17	MCFD	149	BWPD		FLWG	X	PMPG
	37.2	GRAVITY	456	GOR (CF/BO)				PRESSURE		CHOKE
Tubb/Drinkard (6002'-6083')	336	BOPD	243	MCFD	8	BWPD	X	FLWG		PMPG
	36.7	GRAVITY	723	GOR (CF/BO)			300	PRESSURE	24/64"	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 perfs) Acidized w/1,000 gals. Frac'd w/20,000 gals & 20,000 #sd. No new potential.

WELLBORE SCHEMATIC



NM "BZ" St. #2

Texaco
990' FSL & 1978' FWL (N)
Sec 2, T-25S, R-37E, Lea Co., NM
KB-3151'
Spudded 6/6/63
Completed 7/9/63

13 3/8" casing @ 246'.
Set w/350 sxs cmt. Circ.

TOC @ 634' (calc).

TOC @ 1693' (calc).

9-5/8" casing @ 3500'.
Set w/850 sxs cmt.

Glorieta Perfs @ 4812'-4906'.
(Abandoned).
2-7/8" tbg @ 5107'.

Blinebry perfs 5208'-5615'.

Plug @ 5700'.

Tubb/Drinkard Perfs 6026'-6081'.
(Inactive)

PBD @ 6119'.
2-7/8" tbg @ 6148' & 6150'
TD @ 6150'.

8-3/4" hole.

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 perfs.
Blinebry--5580', 82, 91, 5607', 09, 15--total of 7 perfs.
Tubb/Drinkard--6026', 33, 41, 61, 71, 75, 81--total of 7 perfs.

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
36.2º gravity 600 PSIG FCP on 12/64" choke.

Tubb/Drinkard
192 BOPD 104 MCFD 0 BWPD 542 GOR
36.9º 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 perfs. Acidized with 3,000 gals. Frac'd with 20,000 gals & 20,000 # sd. No new potential.

July 1, 1992
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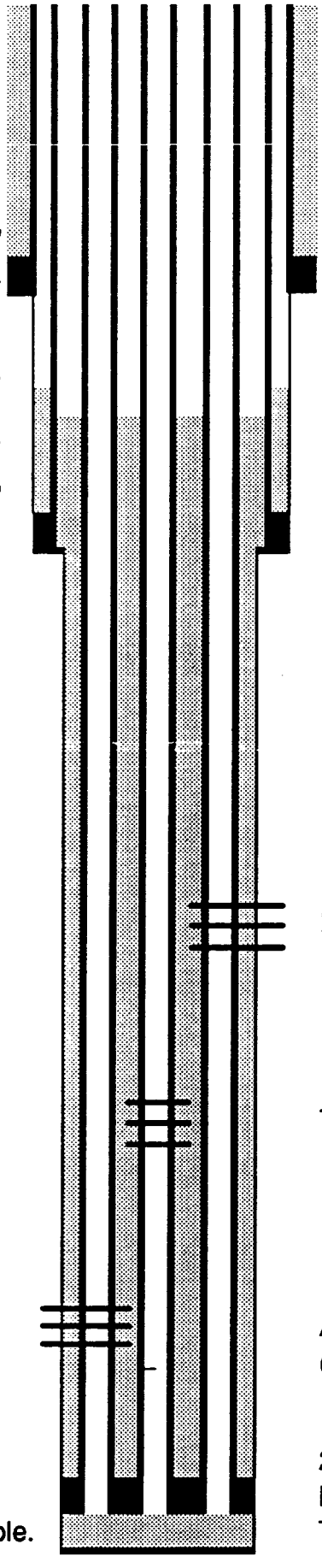
WELLBORE SCHEMATIC



State A-2 #3

Conoco
990' FSL & 1650' FEL (O)
Sec 2, T-25S, R-37E, Lea Co., NM
KB-3138'
Spudded 2/6/63
Completed 3/16/63

13 3/8" casing @ 325'
Set w/350 sxs cmt. Circ.

TOC @ 2193' (calc).

TOC @ 2714' (calc).

9-5/8" casing @ 3710'
Set w/450 sxs cmt.

Blinebry perfs 5362'-5617'.

Tubb/Drinkard Perfs 5922'-6094'.

Abo perfs 6422'-6494'
(Inactive).

2-7/8" tbg @ 6644', 6645', & 6646'
PBD @ 6646'.
TD @ 6650'.

8-3/4" hole.

Well History

Well Name: State A-2 #3

Legal Location: 990' FSL & 1650' FEL (O), Sec. 2, T-25S, R-37E, Lea County, N.M.

Operator: Conoco

BLM Tract Number: Not in Unit

API Number: 3002511402

Spud Date: 2-6-63 KB: 3138' GL: 3128' PBD: 6646' TD: 6650'

Casing:

Size (in)	Depth (ft)	Sxs Cmt	Top Of Cmt
13-3/8	325	350	Circ
9-5/8	3710	450	2331'
2-7/8	6644	1060	2715'
2-7/8	6645	1060	2715'
2-7/8	6646	1060	2715'

Logs: Schlumberger Sonic & LL (3-1-63)

Current Status: Active Blinebry & Tubb/Drinkard Producer

Initial Completion: Blinebry (3-14-63), Tubb/Drinkard (3-16-63), & Abo (3-10-63).

Perforations: Blinebry--5362-65 (6), 5413-15 (4), 5454-56 (4), 5504-08 (8), 5558-63 (10), 5568-70 (4), 5599-5601 (4), 5614-17 (6)-- total of 42 perfs.
Tubb/Drinkard--5922', 43, 49, 57, 62, 77, 84, 6003, 27, 35, 41, 66, 81-83 (4), 30-32 (4), 51-53 (4), 65-67 (4), 92-94 (4)--total of 36 perfs.
Abo--6422-24 (4), 30-32 (4), 51-53 (4), 65-67 (4), 92-94 (4)-- 20 perfs.

Treatments: Blinebry--Acidized w/1,000 gals. Frac'd w/15,000 gals & 15,000#.
Tubb/Drinkard--Acidized w/14,000 gals.
Abo--Acidized w/5,000 gals.

Initial Potentials:

Blinebry (5362'-5617')
231 BOPD 201 MCFD 18 BWPD 874 GOR
36º gravity 875 PSIG FTP on 18/64" choke.

Tubb/Drinkard (5922'--6132')
156 BOPD 60 MCFD 9 BWPD 385 GOR
36º gravity 325 PSIG FTP on 16/64" choke.

Abo (6422'-94')
24 BOPD 156 MCFD 6 BWPD 6,500 GOR
45º gravity 125 PSIG FTP on 32/64" choke.

July 1, 1992
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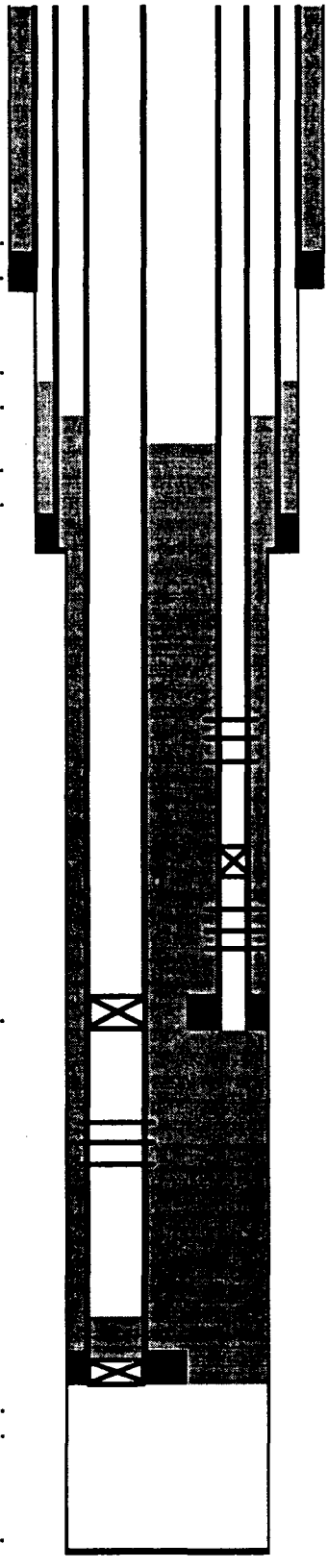
WELLBORE SCHEMATIC



New Mexico "BM" State #3

JFG Enterprises
990' FSL & 330' FEL (P)
Sec 2, T-25S, R-37E, Lea Co., NM
KB-3127'
Spudded 04/28/62
Completed 08/01/62

13 3/8" casing @ 216'.
Set w/250 sxs cmt. Circ.

TOC @ 1769' (calc).
TOC @ 1788' (calc).

TOC @ 2348' (calc).
9-5/8" casing @ 3455'.
Set w/500 sxs cmt.

Blinebry Perfs 5198'-5379'. (Active).

PBD @ 7000'.

Fusselman Perfs 7037'-7207'. (Abandoned).

PBD @ 7350'.

2-7/8" tbg set @ 7353' w/ 200 sxs.

McKee Perfs 8083'-8164'. (Abandoned).

PBD @ 8212'.

4-1/2" casing @ 8278'.
Set w/1400 sxs cmt.

8-3/4" hole.

TD @ 8870'.

Well History

WELL NAME: New Mexico State "BM" #3

LEGAL LOCATION: 990' FSL & 330' FEL (P), Sec 2, T-25S, R-37E, Lea Co., NM

OPERATOR: JFG Enterprises (formerly Exxon)

BLM TRACT NUMBER: Not in Unit

API NUMBER: 3002511408

SPUD DATE: 4/28/62 **KB:** 3127' **GL:** 3116' **PBD:** 8212' **TD:** 8870'

CASING:

SIZE, IN.	WT. LB/FT	SET DEPTH	SACKS CMT	TOP OF CMT
13-3/8"		216'	250	Circ. (calc).
9-5/8"		3455'	500	1769' (calc)..
4 1/2"		8278'	1400	1788' (calc).
2-7/8"		7353'	200	2348' (calc).

LOGS:

Date	Company	Log Name
6/12/62	Welex	GR-Sonic,Guard, Forxo

DSTS:

Date	Formation	Depth	Recovery
6/1/62	Devonian	6842'-80'	Open 1 hr, Rec 1196' mud, 368' GCM. 60" ISIP 2476 #, FP 725-725 #, 60" FSIP 2199#.
6/14/62	Joins	8437'-79'	Open 1 hr, Rec 810' mud. 1 hr ISIP 220#, FP 101-350#, 1 hr FSIP 350#.
6/21/62	Ellenburger	8817'-70'	Open 2 hrs, Rec 184' O&GCM, 2173' Salty Sulfur Wtr. 1 hr ISIP 2885#, FP 223-1182#, 1 hr FSIP 1349#.

CURRENT COMPLETION / STATUS: Active Blinebry Producer.

INITIAL COMPLETION:

DATE: Fusselman (7174'-7207') 6-23-62: McKee (8146'-64') 8-1-62

PERFORATIONS: Fusselman--7174-7207' (33).

McKee --8146'-52' (16), 8156'-64' (16). Reperfed w/14 shots. Total 46 perfs.

STIMULATION: Fusselman--Acidized w/250 gals.

McKee--Acidized w/2930 gals acid . Frac'd w/42 gals oil.

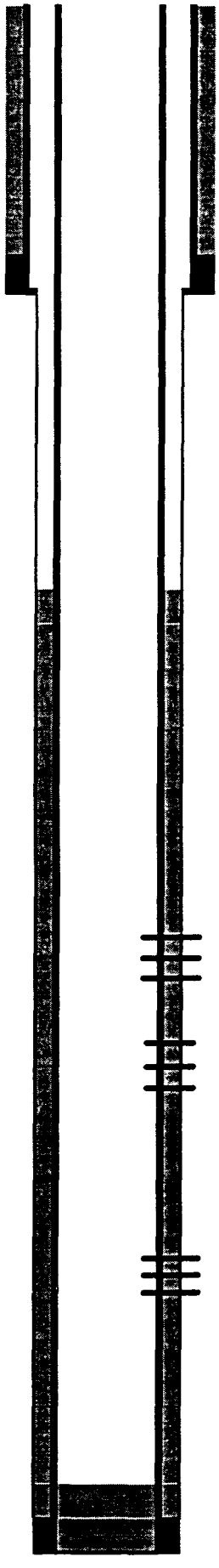
INITIAL POTENTIALS:

Fusselman	242	BOPD	53	MCFD	8	BWPD	X	FLWG		PMPG
McKee	58	BOPD	81	MCFD	0	BWPD	X	FLWG		PMPG

Fusselman	34	GRAVITY	219	GOR (CF/BO)	150 #	PRESSURE	1/4"	CHOKE
McKee	46	GRAVITY	1397	GOR (CF/BO)	25-75#	PRESSURE	1/2"	CHOKE

DATE:	TREATMENTS AND WORKOVERS
1965	Added Fusselman perfs 7066'-7207'
	Added McKee perfs 8083'-8164'.
1969	Added Fusselman perfs 7030-7207.
8/20/72	Perf'd Blinebry @ 5198', 5204', 28, 31, 34, 43, 45, 68, 72, , 5322', 26, 73, 79. Total 13 perfs.
	Acidized w/1000 gals. Frac'd w/32,000 gals wtr. & 38,000 # sd.
	Flowed 55 BOPD, 1 BWPD,
	Dual Blinebry & Fusselman oil well.

WELLBORE SCHEMATIC



C.C. Fristoe "A" (Nct-2) #8

Texaco Inc.
990' FSL & 405' FEL (P)
Sec. 3, T-25S, R-37E, Lea Co., NM
KB 3147'
Spudded 11/06/64
TA'd 12/16/64

12-1/4" hole.
8-5/8" casing @ 1011'.
Set w/550 sxs cmt. Circ.

TOC @ 3257' (Calculated)

Sqzd perfs @ 5375' to 5410'.

Tubb/Drinkard Perfs @ 5596' to 5819'

Tubb/Drinkard perfs @ 6114' to 6132'

8-3/4" hole.
2-7/8" csg @ 6250' w/800 sxs cmt.

PBD 6225'
TD @ 6250'.

C. C. FRISTOE "A" (NCT-2) #8

LOCATION: 990' FSL & 405' FEL (P), SEC. 3, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: TEXACO/MOREXCO

BLM TRACT NUMBER: **API NUMBER:** 3002520929

SPUD DATE: 11/6/64

KB: 3147' GL: TD: 6250' PBTD:

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"			1011'	550 sxs cmt, circ
2-7/8"			6250'	800 sxs cmt

LOGS:

Date	Company	Log Name

DST's:

INITIAL COMPLETION: TA'd

INITIAL COMPLETION DATE: 12/16/64

TREATMENTS AND WORKOVERS

11-9-64 Drlg 1030'

11-12-64 Amended footage: Was 990' FSL & 330' FEL of Sec

11-16-64 Drlg 3680' lm

11-23-64 Drlg 5564' lm

11-30-64 TD 6250', PBD 6225', prep to perf

12-7-64 TD 6250', PBD 6225', swbg
Perf @ 5375', 5389', 5399', 5408', 5410' w/2 spi
Ac 500 gals, Swbd dry. Re-Ac 2500 gals 5375-5410'
Swbd 60 BAW + 32 BFW/10 hrs. Sqzd perfs 5375-5410' w/75 sx
Perf @ 6114', 6118', 6123', 6127', 6132' w/2 spi, Ac 1000 gals
Swbd 59 BL&AW in 3 hrs

12-14-64 TD 6250', PBD 6225', swbg. Swbd 10 BW, w/tr oil in 10 hrs
Re-ac 3000 gals 6114-32', Swbd 100 B form wtr w/tr oil in 9 hrs

12-21-64 Temporarily Abandoned (holding for secondary recovery)

C. C. FRISTOE "A" (NCT-2) #8

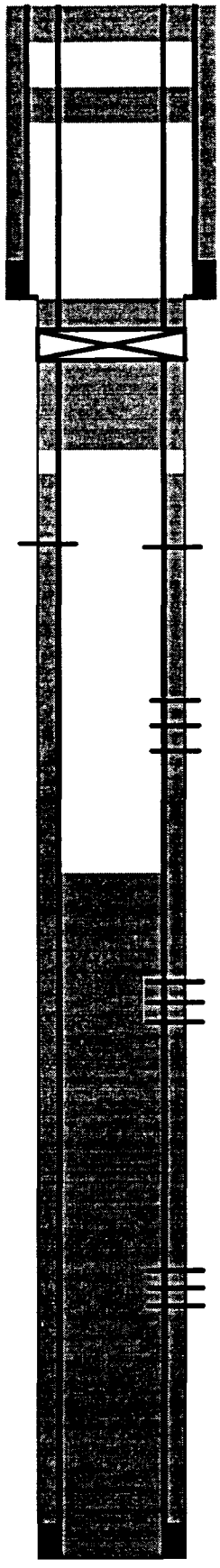
11-79	Frac'd Tubb/Drinkard Perfs: 5596-5819' w/15,000 gals GBW & 19,000# sd
11-82	Shut-In

WELLBORE SCHEMATIC

Cement Plug @ 0' to 50'

Cement Plug @ 300' to 400'

12-1/4" hole.
9-5/8" casing @ 1119'.
Set w/516 sxs cmt. Circ.
Spotted 150' cmt on retainer to 1030'
Cmt Retainter @ 1180' w/200 sxs below



J. A. Stuart #9

Chevron
330' FNL & 330' FEL (A)
Sec. 10, T-25S, R-37E, Lea Co., NM
KB 3137'
Spudded 12/12/63
Completed 03/20/64
P&A'd 02/03/76

TOC @ 1633' (Calculated)

7" csg parted @ 1705'. Cemented w/3800 sxs.

Perfs @ 3939' to 4053'
(Completed as Water Supply Well)

Blinebry perfs @ 5430' to 5534'.

Tubb/Drinkard perfs @ 6125' to 6174'

8-3/4" hole.
7" csg @ 6200' w/650 sxs cmt.

TD @ 6200'.

J. A. STUART #9

LOCATION: 330' FNL & 330' FEL (A), SEC. 10, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: CHEVRON

BLM TRACT NUMBER: **API NUMBER:** 3002520685

SPUD DATE: 12/12/63

KB: 3137' GL: 3125' TD: 6200' PBTD:

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"			1119'	516 sxs cmt, circ
7"			6200'	650 sxs cmt (TOC @ 1633' - Calc'd)

LOGS:

Date	Company	Log Name
1-1-64	Schlumberger	GR-Sonic, LL, MLL

DST's:

INITIAL COMPLETION: P&A

INITIAL COMPLETION DATE: 3-20-64

TREATMENTS AND WORKOVERS

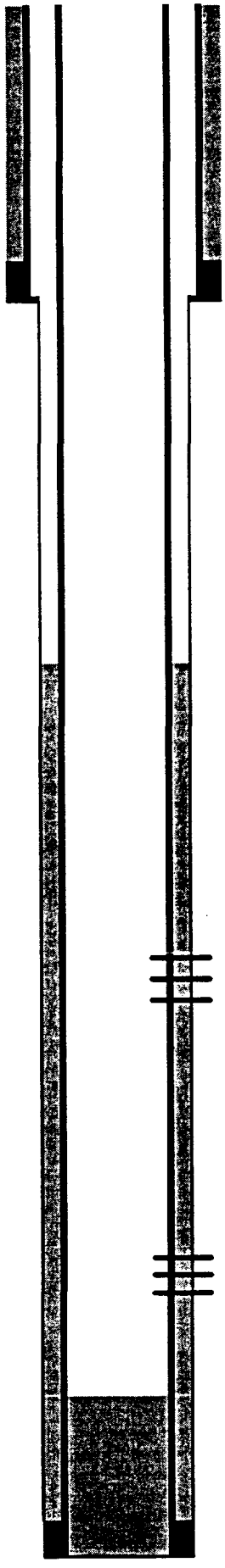
Perf Tubb/Drinkard 6125-27', 6148-50', 6172-74', 4 spf. Acidized 200 gals, Frac 11,000 gals oil + 11,000# sd. Tubb/Drinkard zone abandoned. Set CIBP at 5970'.

Perf Blinebry 5430-32, 4 spf, 5484-88, 5530-34, 2 spf, 5598-5600', 2 spf. Ac 400 gals, frac 13,750 gals oil + 27,500# sd. Straddle perfs 5598-5600, swb 41 BW/3 hrs. Straddle perfs 5530-34, swb 19 BW/2 hrs. Set ret at 5455' & sqz perfs 5484-5600', 100 sx. Perf 5309-13, 5364-68, 2 spf. Ac 600 gals, frac 15,000 gals oil + 30,000# sd. Did not rec load. P&A'd March 19, 1964.

(1968) Re-entered and cleaned out to 5131'. Perf'd 3939-4053' and completed as a water supply well.

Set cement retainer at 1180'. Loaded hole with 9.3# abandonment mud. Pumped 200 sxs of Class "C" cement containing 2% CaCL2 and 18% salt below retainer. Spotted 150', 26 sxs cement plug on top of retainer to 1030', across 9-5/8" shoe at 1119'. Spotted 17 sxs 100' cement plug from 400' to 300' and 10 sxs Class C plug from 50' to surface. Plugged and abandoned February 3, 1976.

WELLBORE SCHEMATIC



South Justis Unit D #11

(ARCO Jal #3)
990' FNL & 990' FEL (A)
Sec. 11, T-25S, R-37E, Lea Co., NM
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.

Blinebry perfs @ 5085' to 5248'.

Tubb/Drinkard perfs @ 5772' to 6145'

PBD @ 6211'

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

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' PBTD: 6211'

CASING RECORD:

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

LOGS:

Date	Company	Log Name
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

TREATMENTS AND WORKOVERS

3/65 Perf Tubb/Drinkard 5968', 6047', 91', 95', 6104', 23', 28', 39', 45'
Acidized w/1000 SOF/18k/18k#. OPT 189 BOPD, GOR 100

Perf Blinebry 5232'-49' 2 spf. Acidized w/1000 SOF/20k/24k#
Squeeze 5232-49'/268 sx to shut off gas. Perf 5239-48', 2 spf
Acidized w/2500. OPT 552 BOPD, GOR 200.

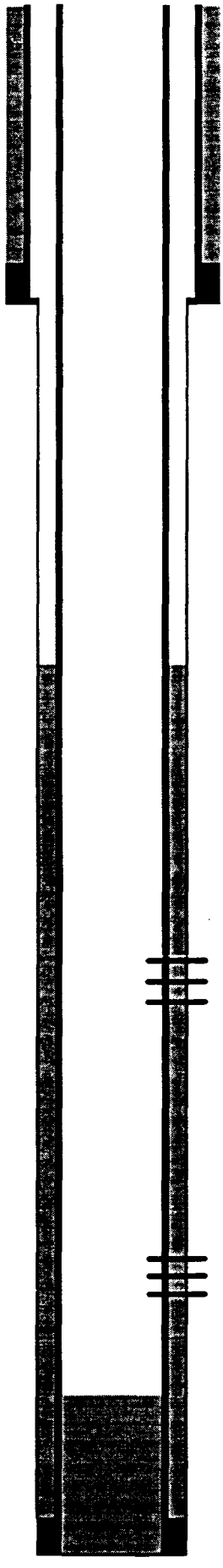
5/65 Acidized Blinebry/5000 - 65 BOPD, 12 BW

7/73 Installed pumping equipment 7 BO, 1 BWPD

SOUTH JUSTIS UNIT "D" #11

4/76	Perf Tubb/Drinkard 5772', 78', 87', 93', 5811', 27', 36', 42', 47', 52', 57', 62', 700', 82', 91', 99', 5904', 12', 24', 30', 47', 52', 63', 73', 80', 86', 6005', 16', 27', 33', 70', 76', 84', 6116'. Acidized w/2500 SWF/36k gal/46k# Perf Blinebry 5085', 93', 5101', 11', 18', 29', 35', 41', 50', 56', 61' 66', 77, 80', 88', 98', 5209', 19'. Acidized w/1500 SWF/47k gal/79k# 133 BOPD/249 BW, Tubb/Drinkard - 51 BOPD/50 BW (Dual)
2/80	Downhole commingled

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 perfs @ 5067' to 5310'.

Tubb/Drinkard perfs @ 5733' to 6114'

PBD @ 6132'

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: 6132'

CASING RECORD:

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

LOGS:

Date	Company	Log Name
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

TREATMENTS AND WORKOVERS

11/63 Perf Tubb/Drinkard 5998', 6009', 24', 44', 62', 6114'
Acidized w/850 SOF/15k/15k#

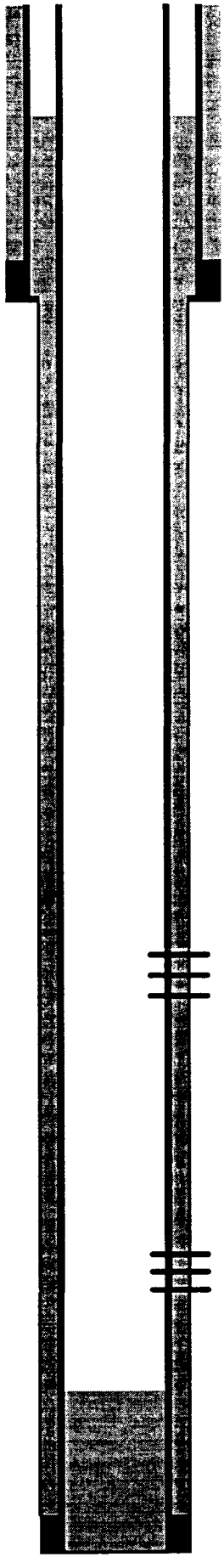
Perf Blinebry - 5290-5310' 4 spf.
Acidized w/1000 SOF/20k/24k#. OPT 240 BOPD/GOR 600

1/76 Perf Blinebry - 5067', 71', 75', 85', 89', 94', 5102', 08', 14', 20', 25', 29', 34', 41', 50', 58', 63'
Perf Tubb/Drinkard - 5733', 89', 95', 5803', 09', 27', 43', 47', 56', 64', 71', 76', 82', 5911', 42', 53', 61', 69', 78', 6035', 51', 77', 6105'. Acidized w/2500 SWF 5733-6114'/60k/92k#
Acidized Blinebry w/1500 SWF 170k/80k# (dual)

2/80 Downhole commingled

11/89 Pumped 1500 gals acid down csg

WELLBORE SCHEMATIC



South Justis Unit B #11

(Meridian Stuart 6)
330' FNL & 2310' FWL (C)
Sec. 11, T-25S, R-37E, Lea Co., NM
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.

Sqzd Blinebry perfs @ 5114' to 5676'.

T&A'd
Tubb/Drinkard perfs @ 5852' to 6108'

PBD @ 6068'

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

TD @ 6140'.

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' PBTD: 6118'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
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:

Date	Company	Log Name
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

TREATMENTS AND WORKOVERS

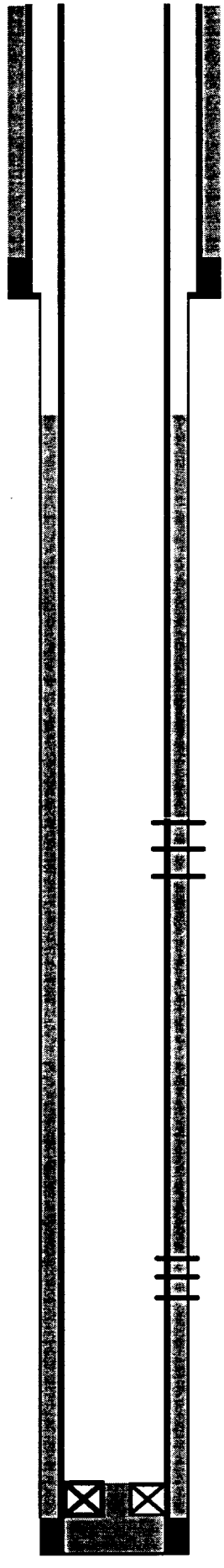
7-63 Perf Tubb/Drinkard @6025', 34', 46', 67', 6100', 08'. Acidized w/8000 gals, Frac'd w/15,000 gals oil & 15,000# sd. 6 - 1/2" holes.
Perf Blinebry 5328', 38', 46', 97', 5438', 75', 81', 5550'. Acidized w/2000 gals; Frac'd w/20,000 gals oil & 20,000# sd 8 - 1/2" holes.

5-65 Acidized Blinebry & Tubb/Drinkard w/1000 gals in each zone

5-69 Squeezed 5328-6108' w/200 sx (Blinebry & Tubb/Drinkard)
Perf Tubb/Drinkard at 5852', 56', 82', 5925', 31', 38', 48', 60', 69' & 80'
Acidized w/840 gals, Frac'd w/20,000 gals wtr & 30,000# 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'.
Frac'd w/80,000 gals wtr & 120,000# sd
Blinebry - Pump 71 BO, 180 BW; Tubb/Drinkard - Pump 8 BO, 18 BW in 14 hrs. Junk pkr at 6067' - PBD 6068'

9-69 Blinebry - Pump 23 BO & 120 BW; Tubb/Drinkard - Pump 20 BO, 10 BW
Tubb/Drinkard TA'd.

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
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'.

Tubb/Drinkard perfs @ 6004' to 6152'.
Shut-in 12/88

Packer @ 6160'
PBD @ 6160'
TD @ 6200'.

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

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 OIL AND GAS COMPANY

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' PBTD: 6160'

CASING RECORD:

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

LOGS:

Date	Company	Log Name
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' w/2-1/2" JHPF. Frac w/6000 gals gel lease oil and 32,000# sd.

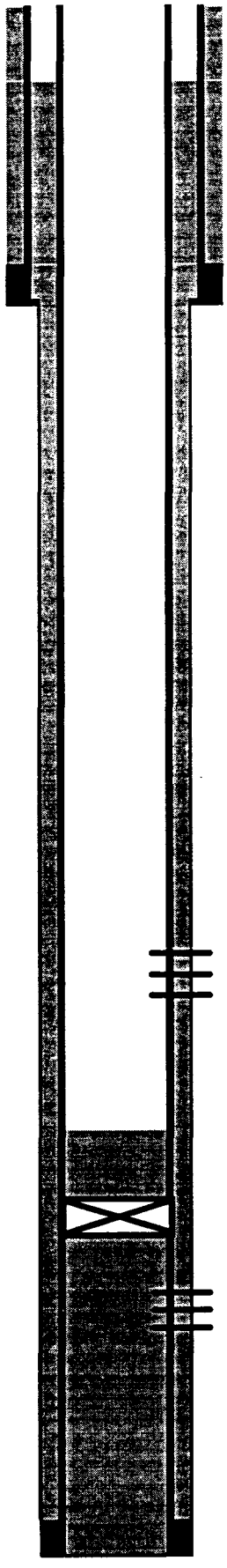
INITIAL COMPLETION DATE: 11/7/63

SOUTH JUSTIS UNIT "A" #11

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	Drld 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 perfs w/625 gals 15% NEA. Frac treat new perfs w/5 stages of 6000 gals gel wtr w/2 ppg sd. Last 4 stages 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 Blinebry, Tubb, Drinkard.
11-79	Replaced entire tbg string
1-85	Squeezed perfs 5209-5377', 5416-5562' w/800 sx cmt. Drill out cmt, C/O to 6160'. Acidized perfs 6004-6152' w/1000 gals 15% NEFE.
12-88	SI

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.

Blinebry perfs @ 5214' to 5645'.

PBD @ 5660'

Plug @ 5680

Tubb/Drinkard perfs @ 5944' to 6117'

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

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' PBTD: 7018'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"	32#		1036'	546 sxs cmt, circ
7"	20-23#		6180'	632 sxs cmt, (TOC @ 465'-TS)

LOGS:

Date	Company	Log Name
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

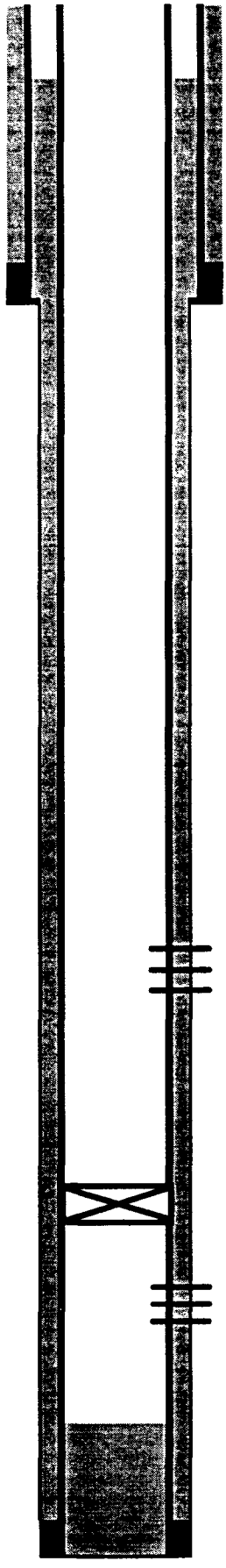
INITIAL COMPLETION DATE: 12/25/63

SOUTH JUSTIS UNIT "A" #12

TREATMENTS AND WORKOVERS

1-64	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 w/2000 gals, Frac'd w/20,000 gals acid & 20,000# sd
4-64	TA'd Tubb/Drinkard 5944-6117'
11-69	Found 1 jt. of bad tbg and replaced. Pumped 42 BO & 5 BW
7-71	Found 1 jt. of bad tbg, leaky pump
11-74	Treated with 2 bbls scale inhibitor & 2 drums CI.
8-75	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 w/2500 gals NEA. -2000# 4 BPM. ISIP - vac Frac'd w/30,000 gals GBW, 30,000# 20/40, and 600# RS-BAF 12 BPM - 3800#, ISIP - 325#, P 100% wtr
1-76	SI
5-77	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'.

WELLBORE SCHEMATIC



South Justis Unit B #12

(Meridian Stuart #7)
1650' FNL & 2310' FWL (F)
Sec. 11, T-25S, R-37E, Lea Co., NM
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/586 sxs cmt. Circ.

Blinebry perfs @ 5307' to 5478'.

CIBP @ 5495'

Tubb/Drinkard perfs @ 5849' to 6113'
P&A'd 07/74

PBD @ 6117'

8-3/4" hole.
7" csg @ 6150' w/623 sxs cmt.

TD @ 6150'.

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: 3128' GL: 3117' TD: 6150' PBTD: 6117'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"	32.75#	H-40	1062'	586 sxs cmt, circ
7"	20/23#	J-55/N-80	6150'	623 sxs cmt, (TOC @ 700' - TS)

LOGS:

Date	Company	Log Name
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

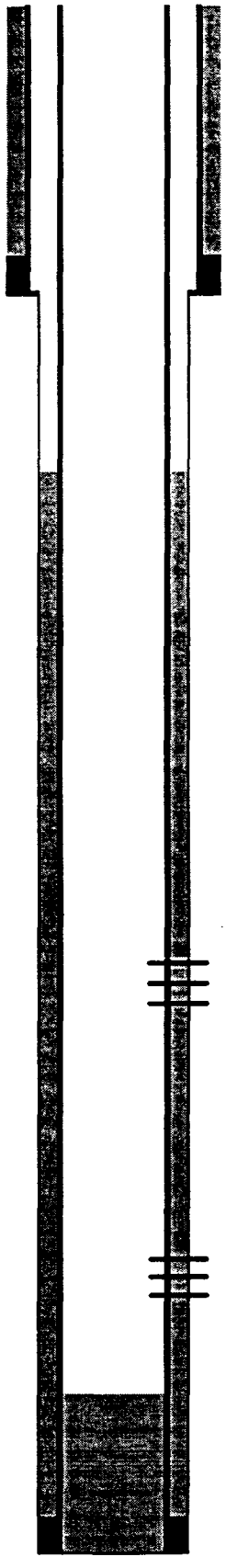
INITIAL COMPLETION: IP Blinebry (5307-5478'), Flwd 698 BO, 22 BW, TP 450#, Gravity 38.5°
Tubb/Drinkard (5849-6113'), Flwd 563 BO, TP 100#, 3/4" choke, Gravity 37.8°

INITIAL COMPLETION DATE: 10/15/63

TREATMENTS AND WORKOVERS

10-63	Perf Drinkard 5968', 85', 99', 6009', 15', 33', 39', 51', 75', 93', 6106', 13, acidized w/2000 gals Perf Tubb 5849', 55', 59', 67', 99', 5908', 25' Acidized w/2000 gals, 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 w/2000 gals, frac'd w/20,000 gals gelled acid and 20,000# sd.
7-74	Set CIBP at 5495' & dumped 15' cmt on top. Tubb/Drinkard P&A'd.

WELLBORE SCHEMATIC



South Justis Unit C #12

(ARCO Langlie B (JH) #1)
2310' FNL & 2310' FEL (G)
Sec. 11, T-25S, R-37E, Lea Co., NM
KB 3130'
Spudded 05/01/61
P&A'd 05/14/61
Respudded 10/24/63
Completed 12/01/63

12-1/4" hole.
8-5/8" casing @ 355'.
Set w/300 sxs cmt. Circ.

TOC @ 1510' by TS.

Blinebry perfs @ 5117' to 5572'.

Tubb/Drinkard perfs @ 5831' to 6098'

PBD @ 6120'

7-7/8" hole.
5-1/2" csg @ 6130' w/1800 sxs cmt.

TD @ 6130'.

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: 6130' PBTD: 6120'

CASING RECORD:

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

LOGS:

Date	Company	Log Name
11/9/63	Schlumberger	Sonic, LL, MLL, MOP

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

TREATMENTS AND WORKOVERS

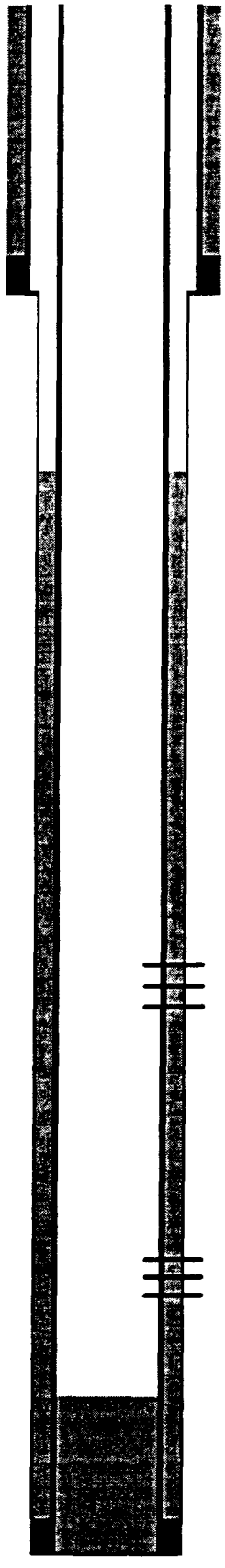
Drinkard Perfs: 5956', 69', 84', 93', 6001', 30', 49', 64', 73', 98'
Acidized w/2000 gals, Frac'd w/15,000 gals oil & 15,000# sd

Tubb Perfs: 5831', 42', 54', 75', 89', 98', 5913', 18'
Acidized w/2000 gals, Frac'd w/15,000 gals oil & 15,000# sd

Blinebry Perfs: 5300', 05', 10', 46', 85', 5435', 49', 57', 75', 5536', 47', 72'
Acidized w/2000 gals, Frac'd w/10,000 gals oil & 10,000# sd

1-70 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#

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
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)

Blinebry perfs @ 5059' to 5698'.

Tubb/Drinkard perfs @ 5834' to 6146'

PBD @ 6165'

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

TD @ 6175'.

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 OIL AND GAS COMPANY

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

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

SPUD DATE: 6/7/64

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

CASING RECORD:

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

LOGS:

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

DST's:

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

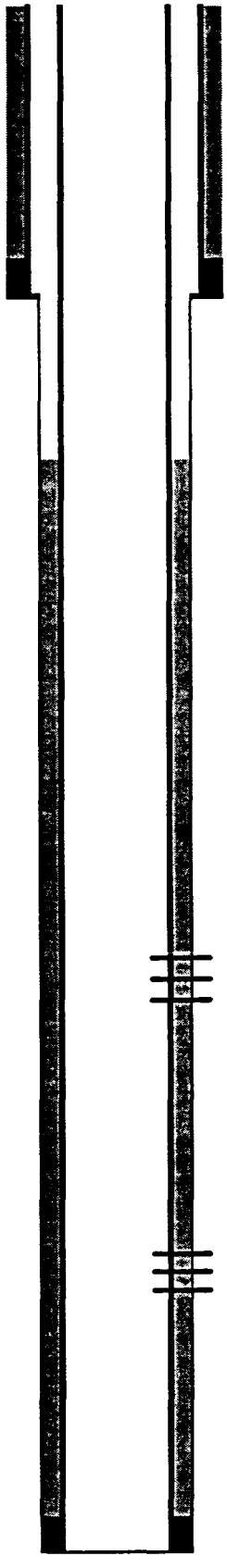
Drinkard Perfs: 6019', 29', 40', 48', 55', 66', 86', 97', 6103', 11', 22', 30', 46'
Acidized w/250 gals, Frac'd 20,000 gals oil, 20,000#
Re-acidized w/1000, Re-frac'd w/14,000 gals oil & 14,000# sd

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

SOUTH JUSTIS UNIT "D" #12

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

WELLBORE SCHEMATIC



South Justis Unit D #13

(Meridian Justis #2)
1650' FSL & 990' FEL (I)
Sec. 11, T-25S, R-37E, Lea Co., NM
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'

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

TD @ 6200'.

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' PBTD:

CASING RECORD:

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

LOGS:

Date	Company	Log Name
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

TREATMENTS AND WORKOVERS

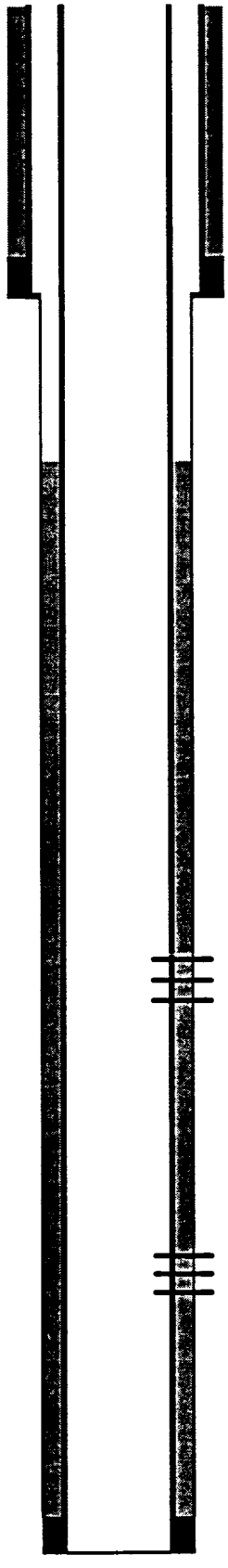
Drinkard Perfs: 5934', 38', 41', 45', 52', 63', 78', 85', 92', 6000', 08', 10', 26', 39', 54', 66', 75', 82', 89', 6102', 18'
Acidize w/2500 gals, Frac'd w/15,000 gals oil, 16,000# sd

Tubb Perfs: 5817', 20', 24', 34', 39', 44', 47', 58', 73', 79.
Acidize w/2000 gals, Frac'd w/15,000 gals oil, 16,000# sd

SOUTH JUSTIS UNIT "D" #13

Blinebry Perfs:	5287', 94', 5308', 14', 37', 40', 60', 65', 71', 99', 5417', 22', 27', 39', 44', 59', 64', 74', 81', 86', 5504', 45', 49' Acidize w/2500 gals, Frac'd w/20,000 gals oil, 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

WELLBORE SCHEMATIC



South Justis Unit C #13

(Meridian Justis #1)
2310' FSL & 2310' FEL (J)
Sec. 11, T-25S, R-37E, Lea Co., NM
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)

Blinebry perfs @ 5297' to 5515'.

Tubb/Drinkard perfs @ 5844' to 6115'

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

TD @ 6150'.

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' PBTD:

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"			1010'	490 sxs cmt, circ
7"			6150'	475 sxs cmt (TOC @ 1920' - Measured)

LOGS:

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

DST's:

INITIAL COMPLETION: IP Blinebry (5297-5515'), Flwd 202 BO, 18 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

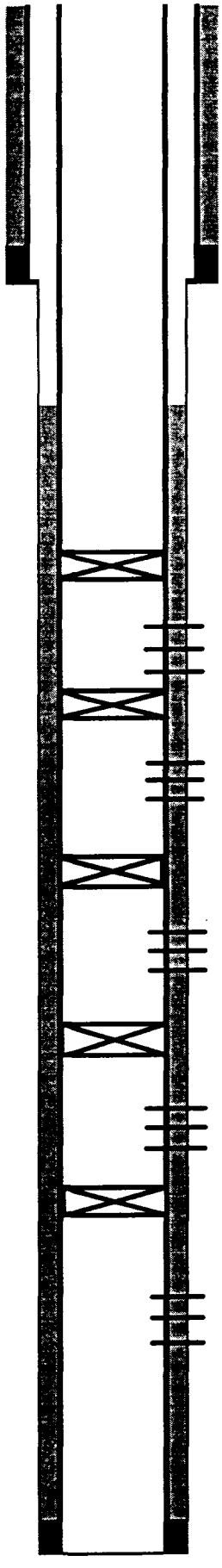
TREATMENTS AND WORKOVERS

Drinkard Perfs: 5959', 65', 72', 78', 86', 6003', 17', 6028', 33', 44', 52', 61', 78', 89', 6102', 15'.
Acidized w/2000 gals, Frac'd w/15,000 gals, 16,000# sd

Tubb Perfs: 5844', 48', 59', 67', 75', 79', 87', 93'
Acidized w/2000 gals, Frac'd w/15,000 gals & 16,000# sd

Blinebry Perfs: 5297', 5306', 17', 24', 85', 89', 5409', 55', 76', 5515'
Acidized w/2000 gals, Frac'd w/16,400 gals, 11,800 # sd

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:

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

LOGS:

Date	Company	Log Name

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

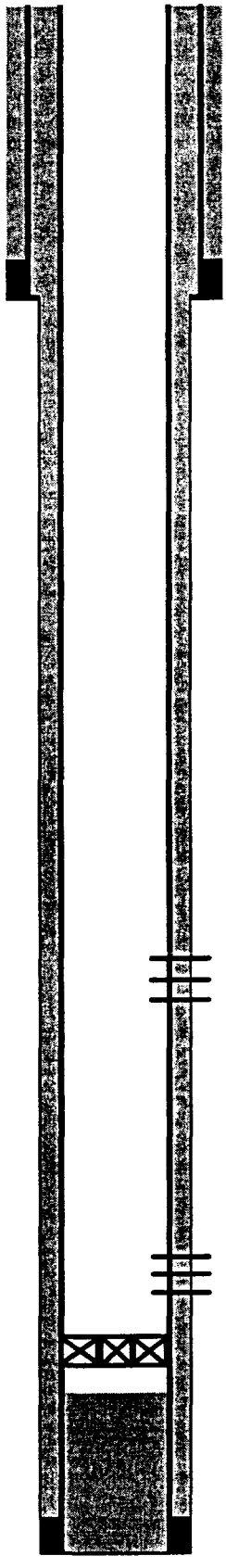
Tubb Perf: 5873', 84', 95', 5909', 12', 22', 51', 55', 58'
Acidized w/2000 gals
Frac'd w/15,000 gals oil, 15,000# sd

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

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
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'.

Tubb/Drinkard perfs @ 5873' to 6117'

Model D Packer 6030'

PD @ 6128'

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

TD @ 6200'.

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' PBTD: 6128'

CASING RECORD:

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

LOGS:

Date	Company	Log Name
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°

INITIAL COMPLETION DATE: 1/28/65

SOUTH JUSTIS UNIT "B" #13

TREATMENTS AND WORKOVERS

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/3500 gals, Frac'd w/30,000 gals oil & 30,000# sd (5873-6117').
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 w/7000 gals, Frac'd 30,000 gals gelled acid & 30,000# sd

12-68 Replaced tbg couplings

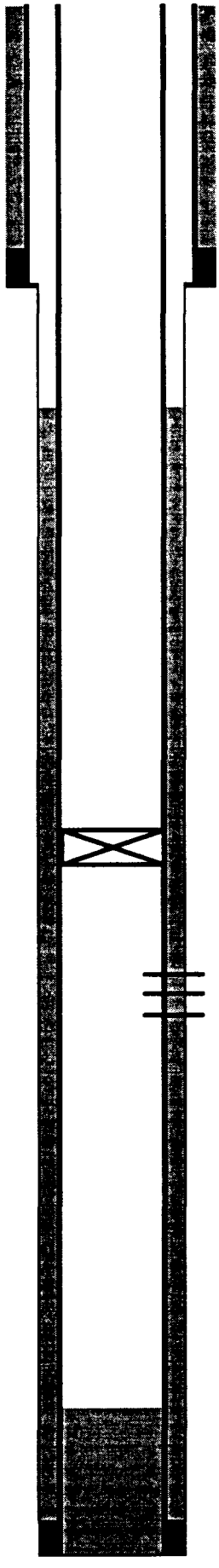
3-71 Dumped 200 gals acid down tbg

11-71 Acidized Tubb w/1500 gals 15% NEA & Blinebry w/2000 gals 15% NEA Blinebry, pumped 8 BO, 21 BW in 16 hrs; Tubb, pumped 4 BO, 4 BW in 6 hrs.

6-14-72 Commingled Blinebry and Tubb/Drinkard. Pumped 30 BO & 48 BW

1-79 Perf'd Blinebry w/1 shot per 2' 5144-64'. Acidized w/4000 gals. Frac'd w/30,000 gals X-lined BW & 42,000# sd. POH w/BP. Pumped 19 BO, 108 BW, 13 MCF.

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'

Blinebry perfs @ 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:

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

LOGS:

Date	Company	Log Name
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

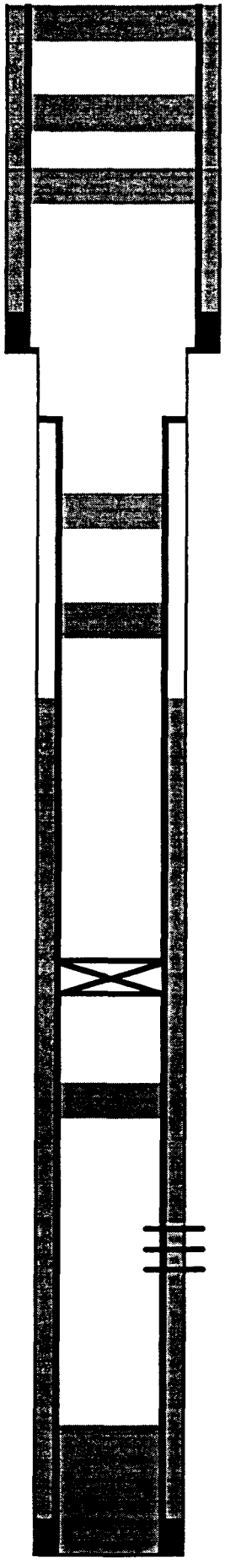
TREATMENTS AND WORKOVERS

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

Updated by LRH 8/26/92

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 perfs @ 5254' to 5448'.

PBD @ 5522'

7-7/8" hole.
4-1/2" csg @ 5553' w/550 sxs cmt.

TD @ 5553'.

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:

Size	Wt	Grade	Depth	Cementing Record
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:

Date	Company	Log Name
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

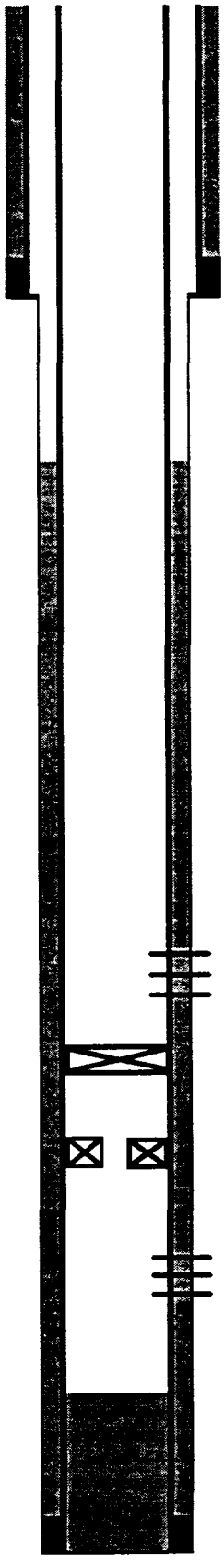
TREATMENTS AND WORKOVERS

	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



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
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)

Blinebry perfs @ 5174' to 5517'.

CIBP 5550' 02/21/68

Pkr @ 5600'.

Tubb/Drinkard perfs @ 5896' to 6109'

PD @ 6178'

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

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' PBTD: 6178'

CASING RECORD:

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

LOGS:

Date	Company	Log Name
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

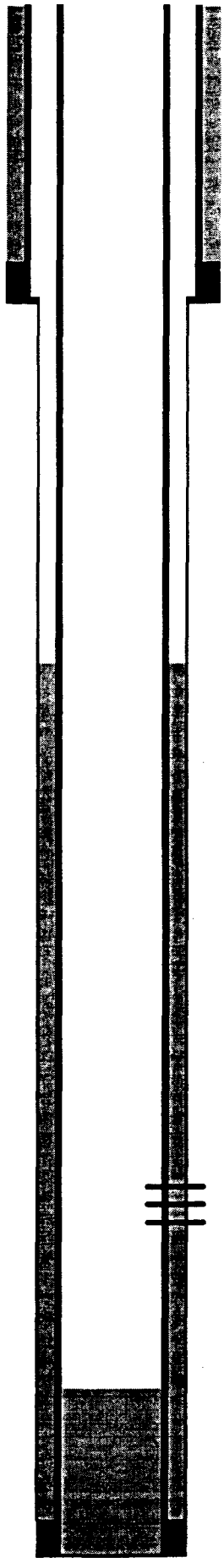
TREATMENTS AND WORKOVERS

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

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
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.

Blinebry perfs @ 5103' to 5407'.

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' PBTD: 6091'

CASING RECORD:

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

LOGS:

Date	Company	Log Name
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 Blinebry (5318-24'), P 69 BO/4 hrs, GOR 650

INITIAL COMPLETION DATE: 10/11/63

TREATMENTS AND WORKOVERS

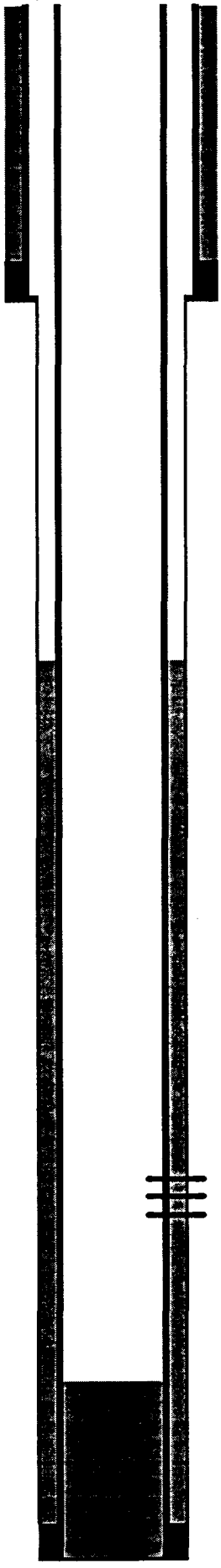
Core #1 5110-86' Blinebry
Core #2 5186-5248' Blinebry

10-63 Perf Blinebry 5399-5407', acidized w/1000 SOF/10k/12k# sd.
Perf 5318-24', acidized w/1000 SOF/10k/11k# sd.
OPT 69 BO/4 hrs, GOR 650.

SOUTH JUSTIS UNIT "C" #14

8-78 Perf Blinebry 5103', 09', 20', 27', 34', 37', 42', 55', 58', 60', 80' 86', 93', 5200', 12', 20', 53', 57'. Acidized w/1800 SF/40k/52k#/ 1 MMCF N2. Treated w/3000 gals 50/50 HCl/Xylene. OPT 41 BOPD, GOR 4146 (Pumping)

WELLBORE SCHEMATIC



South Justis Unit D #14

(ARCO Justis Federal #3-Y)
355' FSL & 990' FEL (P)
Sec. 11, T-25S, R-37E, Lea Co., NM
KB 3137'
Spudded 11/26/63
Completed 12/29/63

12-1/4" hole.
9-5/8" casing @ 956'.
Set w/673 sxs cmt. Circ.

TOC @ 2400' by TS.

Blinebry perfs @ 5079' to 5300'.

PBD @ 6109'

7-7/8" hole.
5-1/2" csg @ 6145' w/854 sxs cmt.

TD @ 6152'.

SOUTH JUSTIS UNIT "D" #14

LOCATION: 355' FSL & 990' FEL (P), SEC. 11, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: JUSTIS FEDERAL #3-Y

BLM TRACT NUMBER: 5 **API NUMBER:** 3002520303

SPUD DATE: 11/26/63

KB: 3137' GL: TD: 6152' PBTD: 6109'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"	32#	H-40	956'	673 sxs cmt, circ
5-1/2"			6145'	854 sxs cmt (TOC @ 2400'-TS)

LOGS:

Date	Company	Log Name
12/21/63	Schlumberger	Sonic
2/91	Schlumberger	NGT-GST

DST's:

INITIAL COMPLETION: OPT 169 BO/13 hrs, GOR 1300

INITIAL COMPLETION DATE: 12/29/63

TREATMENTS AND WORKOVERS

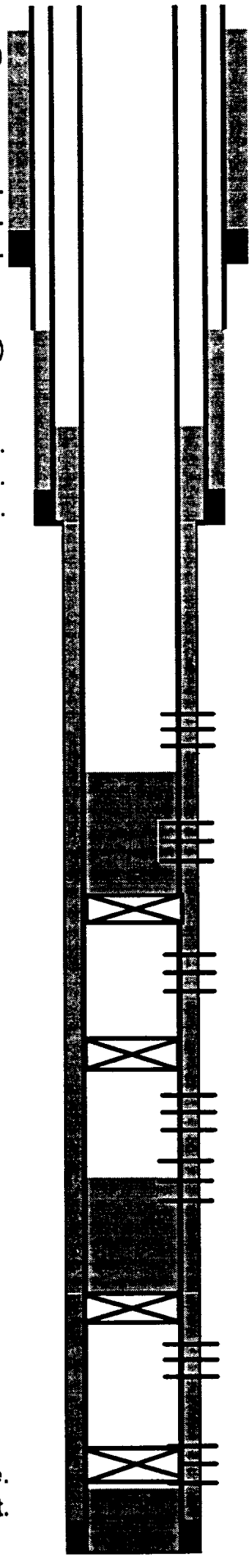
12-63 Perf Blinebry 5284-5300' (4 spf)
Acidized w/1000 SOF/15k/18k# sd.
OPT 169 BO/13 hrs, GOR 1300

10-66 Set Model "D" @ 5200', put on pump, 18 BOPD

12-71 Pushed pkr to 6109', Perf Blinebry 5079', 82', 89', 97', 99', 5107', 12' 17', 41', 53', 56', 61', 63', 69', 95', 98', 5206', 11', 37', 39'
Acidized w/1000, Frac'd w/60k gal/60k# sd. Flwd 75 BO + 75 BW

2-91 Ran Schlumberger NGT-GST logs

WELLBORE SCHEMATIC



TOC @ 54' (Calculated)

17-1/2" Hole.
13" casing @ 398'.
Set w/325 sxs cmt.

TOC @ 1763' (Calculated)

12-1/4" Hole.
9-5/8" casing @ 3495'.
Set w/685 sxs cmt.

8-3/4" hole.
5-1/2" csg @ 9590' w/1040 sxs cmt.

Justis B C Fed Com #3

Lanexco
660' FSL & 660' FEL (P)
Sec 11, T-25S, R-37E, Lea Co., NM
GL 3133'
Spudded 08/07/42
Completed 11/01/43

TOC @ 2358' (Calculated)

Glorieta perfs 4707'- 4880'.

PBD 4885'.

Sqzd Paddock perfs 4900'-4990'

CR @ 5956'.

Sqzd Clearfork perfs 5960'-6140'

CR @ 6347'.

Sqzd perfs 6400'-6404'.

Sqzd Perfs 7200'-7675'.

PBD @ 7490'.

CR@ 7756'

Sqzd Montoya & Simpson perfs 7780'-8815'.

CR @ 9456'
Sqzd Ellenburger perfs 8980-9475
PBD 9520'
TD @ 9592'.

JUSTIS "BC" FED COM #3

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

FORMER OPERATOR: LANEXCO

BLM TRACT NUMBER: **API NUMBER:**

SPUD DATE: 8/07/42

KB: GL: 3133' TD: 9592' PBTD: 4885'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13"			398'	325 sxs cmt
9-5/8"			3495'	685 sxs cmt
5-1/2"			9590'	1040 sxs cmt

LOGS:

Date	Company	Log Name
	Schlumberger	GN
	Halliburton	

DST's:

1	9475-96'	Open 1 hr., rec 7472' wtr & drlg fluid w/50 sx cmt
2	9410-28'	Open 1 hr., rec 1350' salty wtr, 900' mud, 45' sand in tbg (tool plugged w/sd)
3	9110-80'	Open 1 hr. 15 min., rec. 270' gas & oil cut mud
4	8980-9020'	Open 3 hrs., rec 220' drlg fl, no wtr, no oil/gas
5	8100-8161'	1-1/2 hr. open 5 mins, rec 525' cmt
6	8170-8187'	Open 2 hrs. 45 mins, rec 4325' sul wtr no oil/gas.
7	8060-8070'	Open 40 mins, 30' mud
8	7780-7810'	Open 1 hr., rec 2500' mud, 3600' sul wtr.
9	7200-7255'	Open 1 hr. 15 mins. rec 1925' wtr w/SO
10	7625-7675'	Open 2 hrs., rec 3500' sul wtr, plugged back w/35 sx
11	6080-6140'	Open 2 hrs, rec 385' sul wtr
12	5960-6020'	Open 1 hr. 50 mins., rec 460' sul wtr

JUSTIS "BC" FED COM #3

INITIAL COMPLETION: Glorieta (4707-57', 4767-4804'), 86 perfs
IP 2.2 MMCFD, 25 BC

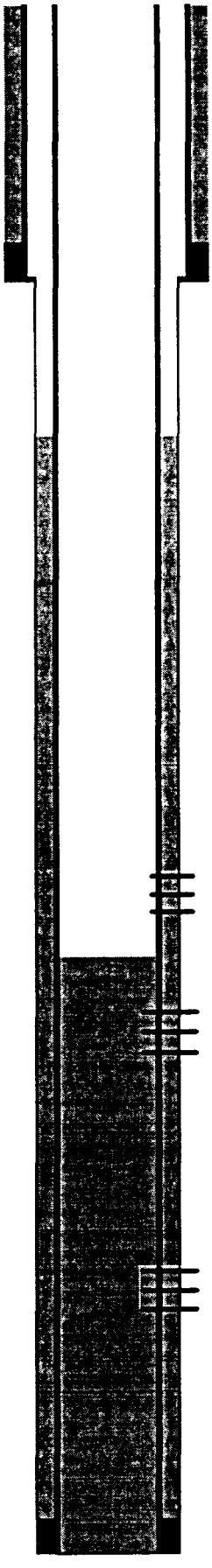
INITIAL COMPLETION DATE: 11/1/43

PERFORATIONS:

Ellenburger:	9475-96'	Sqz 50 sx
	9410-28'	Sqz 50 sx
	9110-80'	Sqz 100 sx
	8980-9020'	Sqz 100 sx
	9110-60'	Sqz 35 sx
Simpson:	8765-8815'	
	8630-8660'	
	8200-8230'	
	8178'	
	8178-9020'	Sqz 165 sx
Montoya:	8170-8187'	Sqz 148 sx
	8060-70'	Sqz 875 sx
	7780-7810'	
	7425-7455'	
	7200-7255'	PB 7490-7756' w/35 sx
	7625-7675'	PB to 7385'
	7275-7300'	
Clearfork	6400-6404'	Sqz w/690 sx
	6080-6140'	
	5960-6020'	Sqz w/30 sx, PBD - 5956'
Paddock	4900-4990'	PB to 4885' , w/386 sx
Glorieta	4835-4880'	
	4707-4804'	

TREATMENTS AND WORKOVERS

WELLBORE SCHEMATIC



TOC @ 81' (Calculated)

12-1/4" hole.
8-5/8" casing @ 1041'.
Set w/500 sxs cmt.

SWD Well B-12

Rice Engineering
880' FNL & 2310' FEL (B)
Sec. 12, T-25S, R-37E, Lea Co., NM
KB 3102'
Spudded 07/04/74
Completed 08/07/75

TOC @ 1180' (Calculated)

San Andres Perfs @ 4236' to 4542'

PBD @ 5115'

Sqzd Glorieta Perfs @ 5270' to 5290'

Sqzd Blinebry perfs @ 5400' to 5671'.

7-7/8" hole.
5-1/2" casing @ 5750' w/750 sxs cmt.

TD @ 5750'.

SWD WELL B-12

LOCATION: 880' FNL & 2310' FWL (B), SEC. 12, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: RICE ENGINEERING

BLM TRACT NUMBER: **API NUMBER:** 3002524761

SPUD DATE: 7/4/74

KB: 3102' GL: 3102' TD: 5750' PBTD: 5690'

CASING RECORD:

Size	Wt.	Grade	Depth	Cementing Record
8-5/8"			1041'	500 sxs cmt
5-1/2"			5750'	750 sxs cmt, (TOC @1180' Calc'd)

LOGS:

Date	Company	Log Name

DST's:

INITIAL COMPLETION: Dry & Abandoned

INITIAL COMPLETION DATE: 8/7/75

TREATMENTS AND WORKOVERS

7-9-74 TD 1045', WOC

7-16-74 Drlg 3436', dolo

7-23-74 Drlg 4463', lm, dolo & sd

7-30-74 Drlg 5577', dolo & lm

8-7-74 TD 5750'; WOC

8-14-74 WOCU

8-26-74 WOCU

SWD WELL B-12

10-1-74 Prep Perf

10-7-74 Swbg ld
Perf (Blinebry) 5400-14', 5420-26', 5434-48', 5667-71' w/1 SPF
Acid (5400-5671') 300 gals
Frac (5400-5671') 20,000 gals wtr + 30,000# sd

10-16-74 RU Pump

10-23-74 TO Pump
Pmpd 10 BO + 220 BW in 24 hrs (5400-5671')

10-29-74 TO Pmp
Pmpd 12 BO + 180 BW in 24 hrs (5400-5671')

11-4-74 TO Pmp
Pmpd 5 BO + 75 BW in 24 hrs (5400-5671')

12-30-74 TO Pmp

2-10-75 Ppg ld
Sqzd 5667-71' w/100 sxs, Drld out to 5623'
Pmpd 71 BLW in 24 hrs (5400-48')

2-19-75 TO Pmp
Pmpd 1 BO + 70 BW in 24 hrs (5400-48')

3-10-75 TO Pmp

4-1-75 WOC. Sqzd 5400-48' w/200 sxs

4-7-75 SI. Perf (Glorieta) 5270-90' w/1 spf, Acid (5270-90') 4000 gals
Swbd 12 BLW + 10 BFW in 7 hrs (5270-90')

4-28-75 SI

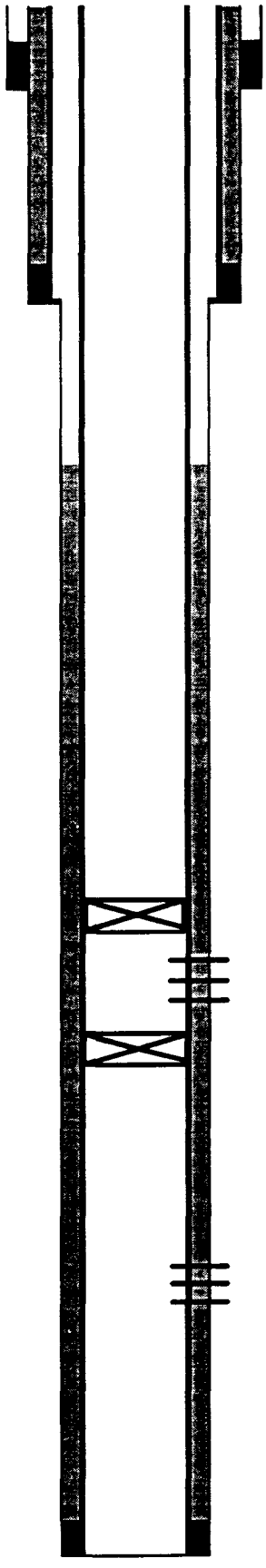
8-11-75 D&A (hold for tops)

8-18-75 Dry & Abandoned
Log Tops: Anhydrite 1005', Yates 2550', Seven Rivers 2833', Queen 3329', Grayburg 3636', San Andres 3875', Blinebry 5402'

8-23-75 Completion issued.

7-16-79 TD 5750', PBD 5115', Perf (San Andres) 4236-4542' (overall)
Acidize w/10,000 gals. Water Disposal Well

WELLBORE SCHEMATIC



13" casing @ 20'.

12-1/4" hole.
8-5/8" casing @ 980'.
Set w/400 sxs cmt. Circ.

South Justis Unit F #11

(ARCO N. W. Eaton (JH) #15)
990' FNL & 1650' FWL (C)
Sec. 12, T-25S, R-37E, Lea Co., NM
KB 3120'
Spudded 12/31/73
Completed 02/20/74

TOC @ 2000' (Measured)

CIBP @ 5100'.

Blinebry perfs @ 5142' to 5611'.
Shut-In 02/90
CIBP @ 5660'

Tubb/Drinkard perfs @ 5822' to 6198'
Shut-In 02/90

7-7/8" hole.
5-1/2" csg @ 6300' w/1000 sxs cmt.

TD @ 6300'.

SOUTH JUSTIS UNIT "F" #11

LOCATION: 990' FNL & 1650' FWL (C), SEC. 12, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: N. W. EATON (JH) #15

BLM TRACT NUMBER: 39 **API NUMBER:** 3002524627

SPUD DATE: 12/31/73

KB: 3120' GL: 3109' TD: 6300' PBTD:

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13"			20'	
8-5/8"			980'	400 sxs cmt, circ
5-1/2"			6300'	1000 sxs cmt, (TOC @ 2000' Md)

LOGS:

Date	Company	Log Name
1/31/74	Dresser Atlas	SNP, LL

DST's:

INITIAL COMPLETION: IP Blinebry (5142-5611'), F 175 BO, 787 BLW, 480 MCF, Gravity 38.5°, GOR 2742 on 24/64" ck, FTP 375#

INITIAL COMPLETION DATE: 2/20/74

TREATMENTS AND WORKOVERS

Blinebry Perfs:	5142', 45', 48', 51', 54', 67', 75', 79', 84', 86', 88', 5208', 18', 20', 38', 40', 42', 58', 60', 5317', 5406', 08', 10', 63', 85', 5557', 59', 5603', 11'. A/2100 gals, F/80,000 gals GBW, 120,000#
5-77	Recompleted to T/D 5822-5907', 6130-98' IP: P 8 BO, 12 MCF, F/60,000 gals & 105,000# sd
2-91	Ran Schlumberger NGT-CST log. Set CIBP @ 5660'. TA'd Tubb/Drinkard
6-91	Set CIBP @ 5100'. TA'd Blinebry

WELLBORE SCHEMATIC

South Justis Unit E #11

(ARCO N. W. Eaton (JH) #17)
660' FNL & 990' FWL (D)
Sec. 12, T-25S, R-37E, Lea Co., NM
KB 3133'
Spudded 04/18/74
Completed 06/06/74

12-1/4" hole.
8-5/8" casing @ 985'.
Set w/400 sxs cmt. Circ.

TOC @ 2200' (Measured)

Blinebry perfs @ 5084' to 5498'.

7-7/8" hole.
5-1/2" casing @ 6300' w/900 sxs cmt.

TD @ 6300'.

SOUTH JUSTIS UNIT "E" #11

LOCATION: 660' FNL & 990' FWL (D), SEC. 12, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: N. W. EATON (JH) #17

BLM TRACT NUMBER: 39 **API NUMBER:** 3002524722

SPUD DATE: 4/18/74

KB: 3133' GL: 3123' TD: 6300' PBTD:

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"			985'	400 sxs cmt, circ
5-1/2"			6300'	900 sxs cmt, (TOC@2200'-Measured)

LOGS:

Date	Company	Log Name
5/22/74	Dresser Atlas	SNP, LL

DST's:

INITIAL COMPLETION: IP Blinebry (5084-5498'), Flwd 425 BO, 450 MCF, GOR 1059, Gravity 38.5°, TP 300# on 25/64" choke

INITIAL COMPLETION DATE: 6/6/74

TREATMENTS AND WORKOVERS

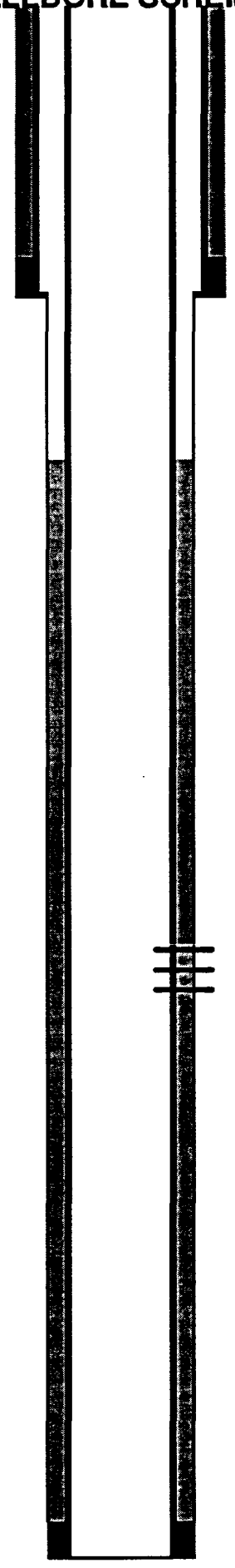
Blinebry Perfs: 5084' 85', 89', 90', 96', 97', 5100', 02', 39', 40', 64', 65', 5259', 60', 62', 73', 74', 5347', 48', 50', 52', 54', 56', 58', 59', 67', 68', 5421', 22', 96', 97', 98'.
Acidized w/1000 gals, Frac'd w/30,000# sd, 20,000 gals GBW

WELLBORE SCHEMATIC

South Justis Unit E #12

(ARCO N. W. Eaton (JH) #16)
1980' FNL & 990' FWL (E)
Sec. 12, T-25S, R-37E, Lea Co., NM
KB 3129'
Spudded 03/05/74
Completed 04/24/74

12-1/4" hole.
8-5/8" casing @ 940'.
Set w/400 sxs cmt. Circ.



TOC @ 2500' (Measured)

Blinebry perfs @ 5059' to 5422'.

7-7/8" hole.
5-1/2" casing @ 6293' w/900 sxs cmt.

TD @ 6293'.

SOUTH JUSTIS UNIT "E" #12

LOCATION: 1980' FNL & 990' FWL (E), SEC. 12, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: N. W. EATON (JH) #16

BLM TRACT NUMBER: 39 **API NUMBER:** 3002524686

SPUD DATE: 3/5/74

KB: 3129' GL: 3118' TD: 6293' PBTD:

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"			940'	400 sxs cmt, circ
5-1/2"			6293'	900 sxs cmt, (TOC @ 2500' - Measured)

LOGS:

Date	Company	Log Name
4/13/74	Welex	SNP, Guard

DST's:

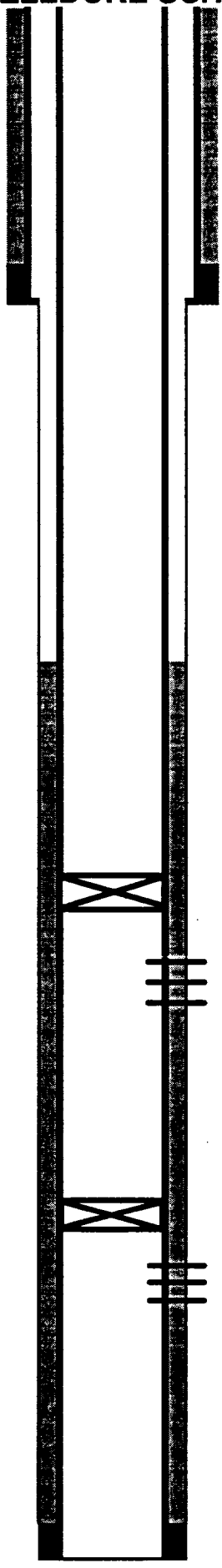
INITIAL COMPLETION: IP Blinebry (5059-5422'), F 492 BO, 575 BW, 516 MCF, GOR 1048, Gravity 38.5°, TP 550#, 24/64" choke

INITIAL COMPLETION DATE: 4/24/74

TREATMENTS AND WORKOVERS

Blinebry Perfs: 5059', 62', 64', 67', 71', 74', 5111', 23', 25', 35', 41', 51', 53', 61', 66', 5321', 23', 32', 35', 38', 41', 61', 90', 96', 5400', 07', 14', 16', 19', 22
Acidized w/2000 gals
Frac'd w/80,000# GBW, 120,000# sd

WELLBORE SCHEMATIC



South Justis Unit F #12

(ARCO N. W. Eaton (JH) #14)
2310' FNL & 1650' FWL (F)
Sec. 12, T-25S, R-37E, Lea Co., NM
KB 3120'
Spudded 01/23/73
Completed 05/19/73

13-1/2" hole.
9-5/8" casing @ 880'.
Set w/675 sxs cmt. Circ.

TOC @ 2465' by TS.

CIBP @ 5040'

Blinebry perfs @ 5112' to 5433'.

CIBP @ 5706'

Tubb/Drinkard perfs @ 5796' to 6164'

8-3/4" hole.
7" csg @ 6302' w/600 sxs cmt.

TD @ 6302'.

SOUTH JUSTIS UNIT "F" #12

LOCATION: 2310' FNL & 1650' FWL (F), SEC. 12, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: N. W. EATON (JH) #14

BLM TRACT NUMBER: 40 **API NUMBER:** 3002524326

SPUD DATE: 1/23/73

KB: 3120' GL: 3110' TD: 6302' PBTD:

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"			880'	675 sxs cmt, circ
7"			6302'	600 sxs cmt, (TOC @ 2465'-TS)

LOGS:

Date	Company	Log Name
4/12/73	Dresser Atlas	SNP

DST's:

INITIAL COMPLETION: IP Blinebry (5112-5433'), F 200 BO, 0 BW, 442 MCF, GOR 2210, TP 275#, 22/64" choke - (5/19/73)
Tubb/Drinkard (5796-6164') F 110 BO, 65 BW, TP 300#, 240 MCF, 32/64" choke (5-1-73)

INITIAL COMPLETION DATE: 5/19/73

TREATMENTS AND WORKOVERS

Tubb/Drinkard Perfs: 5796', 99', 5804', 07', 10', 13', 35', 36', 51', 59', 70', 77', 79', 85', 86', 5924', 32', 42', 47', 6050', 51', 81', 85', 6107', 09', 111', 118', 121', 129', 132', 139', 143', 145', 153', 163', 164'
SWF - 20,000 gals, 30,000#

SOUTH JUSTIS UNIT "F" #12

Blinebry Perfs:	5112', 16', 20', 24', 28', 32',49', 52', 54', 59', 68', 81', 82', 99', 5200', 07', 11', 15', 34', 36', 54', 56', 72', 72', 78', 83', 85', 5423', 25', 31', 33 SWF - 80,000 gals, 125,000#
1-13-87	Set CIBP at 5706. TA Tubb/Drinkard 5796-6164'
4-91	Set CIBP at 5040 to TA Blinebry

WELLBORE SCHEMATIC

South Justis Unit G #13

(ARCO S. E. Eaton (JH) #13)
1750' FSL & 2310' FEL (J)
Sec. 12, T-25S, R-37E, Lea Co., NM
KB 3107'
Spudded 06/27/72
Completed 08/09/72

12-1/4" hole.
8-5/8" casing @ 952'.
Set w/350 sxs cmt. Circ.

TOC @ 2590' by TS.

TA'd 09/28/82

CIBP 5115' 06/91

Blinebry perfs @ 5175' to 5348'.

7-7/8" hole.
5-1/2" csg @ 5400' w/500 sxs cmt.

TD @ 5400'.

SOUTH JUSTIS UNIT "G" #13

LOCATION: 1750' FSL & 2310' FEL (J), SEC. 12, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: S. E. EATON (JH) #13

BLM TRACT NUMBER: 44 **API NUMBER:** 3002524168

SPUD DATE: 8/27/58

KB: 3107' GL: 3096' TD: 5400' PBTD: 5115'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"			952'	350 sxs cmt, circ
5-1/2"			5400'	500 sxs cmt, (TOC @ 2590'-TS)

LOGS:

Date	Company	Log Name
7/13/72	Schlumberger	SNP

DST's:

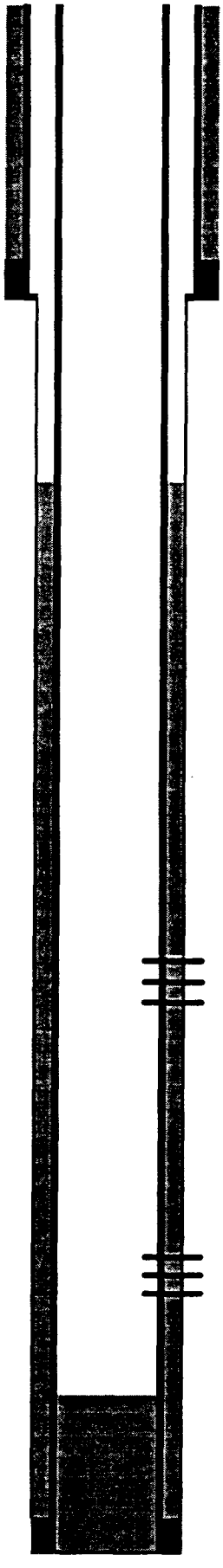
INITIAL COMPLETION: IP Blinebry (5175-5348'), P 120 BO, 150 BW, 285 MCF, GOR 2375

INITIAL COMPLETION DATE: 8/9/72

TREATMENTS AND WORKOVERS

Blinebry Perfs:	5175', 78', 81', 84', 87', 90', 93', 99', 5210', 19', 22', 25', 35', 43', 52', 67', 74', 76', 79', 82', 86', 99', 5311', 19', 22', 25', 28', 42', 45', 48' Acidized w/2000 gals, Frac'd w/90,000 gals, 120,000#
9-28-82	T&A'd (no record of CIBP)
6-91	Set CIBP @ 5115' & TA'd well.

WELLBORE SCHEMATIC



South Justis Unit F #13

(ARCO S. W. Eaton (JH) #11)
1650' FSL & 1750' FWL (K)
Sec. 12, T-25S, R-37E, Lea Co., NM
KB 3113'
Spudded 04/12/71
Completed 06/06/71

12-1/4" hole.
8-5/8" casing @ 920'.
Set w/500 sxs cmt. Circ.

TOC @ 2880'

Blinebry perfs @ 5103' to 5392'.

Tubb/Drinkard perfs @ 5769' to 6174'

PBD @ 6181'

7-7/8" hole.
5-1/2" csg @ 6200' w/320 sxs cmt.

TD @ 6202'.

SOUTH JUSTIS UNIT "F" #13

LOCATION: 1650' FNL & 1750' FWL (K), SEC. 12, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: S. W. EATON (JH) #11

BLM TRACT NUMBER: 41 **API NUMBER:** 3002523748

SPUD DATE: 4/12/71

KB: 3113' GL: 3101' TD: 6202' PBTD: 6181'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"			920'	500 sxs cmt, circ
5-1/2"			6200'	320 sxs cmt, (TOC @ 2880' - TS)

LOGS:

Date	Company	Log Name
4/29/71	Schlumberger	SNP, LL-9, Dipmeter

DST's:

INITIAL COMPLETION: IP Blinebry (5103-5392'), Flwd 341 BO, 450 MCF, 320 BW, GOR 1319, 475#, Gravity 39.3° on 28/64" choke
Tubb/Drinkard (5769-6174'), Flwd 180 BO, 390 MCF, GOR 2166, 850#,on 18/64" choke, Gravity 39.3°

INITIAL COMPLETION DATE: 6/6/71

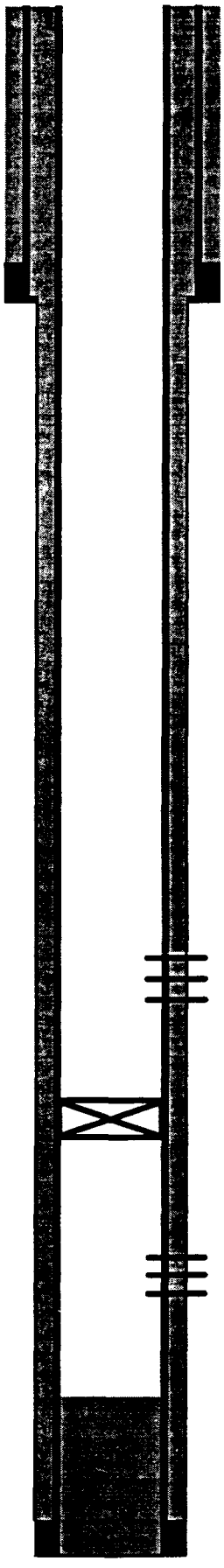
TREATMENTS AND WORKOVERS

Blinebry Perfs: 5103', 05', 5111', 16', 22', 46', 50', 52', 54', 5225', 44', 49', 51', 69', 71', 5312', 55', 74', 81', 92'
Frac'd w/80,000 gals, 120,000# sd

Tubb/Drinkard Perfs: 5769', 89', 99', 5802', 26', 37', 45', 47', 64', 74', 83', 5922', 50',54', 6072', 93', 6109', 119', 22', 37', 46', 52', 61', 68', 72',74'. Frac'd w/80,000 gals, 120,000# sd

Blinebry & Tubb/Drinkard are commingled downhole.

WELLBORE SCHEMATIC



South Justis Unit E #13

(ARCO S. W. Eaton (JH) #9)
2310' FSL & 330' FWL (L)
Sec. 12, T-25S, R-37E, Lea Co., NM
KB 3137'
Spudded 05/31/67
Completed 07/04/67

11" hole.
8-5/8" casing @ 915'.
Set w/500 sxs cmt. Circ.

Blinebry perfs @ 5102' to 5596'.

CIBP 5700'

Tubb/Drinkard perfs @ 5742' to 6138'

PBD @ 6152'

7-7/8" hole.
5-1/2" csg @ 6200' w/620 sxs cmt.

TD @ 6200'.

SOUTH JUSTIS UNIT "E" #13

LOCATION: 2310' FSL & 330' FWL (L), SEC. 12, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: S. W. EATON (JH) #9

BLM TRACT NUMBER: 41 **API NUMBER:** 3002511547

SPUD DATE: 5/31/67

KB: 3137' GL: 3125' TD: 6200' PBTD: 6152'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"			915'	500 sxs cmt, circ
5-1/2"			6200'	620 sxs cmt

LOGS:

Date	Company	Log Name
6/19/67	Lane Wells	Sonic, LL, MLL, GR-N

DST's:

INITIAL COMPLETION: IP Blinebry (5377-5596') Flwd 87 BO, 45 BW, 300# TP 638 MCF on 20/64" choke.
Tubb/Drinkard (5742-6138'), Flwd 140 BO, 490# TP, 47 BW,1316 MCF on 16/64" choke

INITIAL COMPLETION DATE: 7/4/67

TREATMENTS AND WORKOVERS

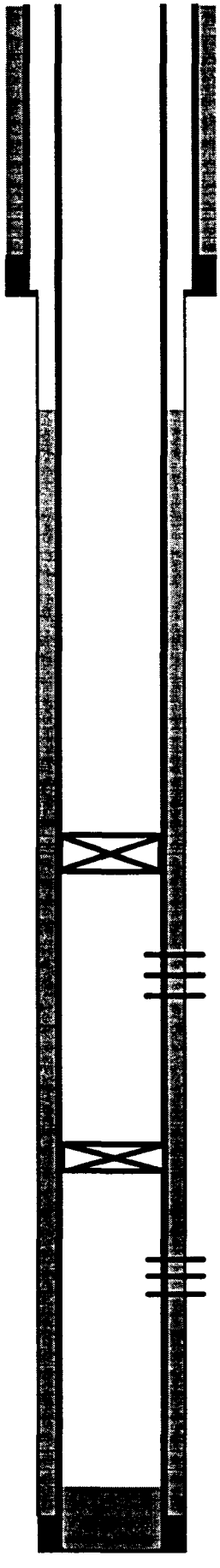
Blinebry Perfs: 5377', 90', 5401', 14', 21', 54', 76', 5511', 55', 64', 96'
Acidized w/3000 gals

Tubb/Drinkard Perfs: 5742', 54', 80', 85', 91', 5818', 22', 34', 39', 63', 70', 5921', 61', 74', 6030', 54', 92', 6106', 13', 27', 34', 38'
Acidized w/2500 gals, Frac w/30,000 gals, 45,000# sd
Flwd 278 BO, CIBP set at 5700'

SOUTH JUSTIS UNIT "E" #13

New Perfs: 5102', 11', 16', 24', 31', 38', 54', 59', 61', 63', 72', 78', 83', 92', 5209', 14', 20', 38', 42', 56', 68', 94', 97', 5308' 34', 61', 90', 5401', 13'.
Acidize w/350 gals, Frac w/80,000 gals GBW, 120,000# sand, Flwd 278 BO, Set CIBP @ 5700'

WELLBORE SCHEMATIC



South Justis Unit E #14

(ARCO S. W. Eaton (JH) #8)
990' FSL & 330' FWL (M)
Sec. 12, T-25S, R-37E, Lea Co., NM
KB 3124'
Spudded 03/21/67
Completed 04/28/67

12-1/4" hole.
8-5/8" casing @ 960'.
Set w/500 sxs cmt. Circ.

TOC @ 2245' by TS

Plug @ 5020'

Blinebry perfs @ 5088' to 5533'.
Shut-in

Plug @ 5670'

Tubb/Drinkard perfs @ 5780' to 6142'
Shut-in

7-7/8" hole.
5-1/2" csg @ 6200' w/580 sxs cmt.

PBD @ 6170'
TD @ 6200'.

SOUTH JUSTIS UNIT "E" #14

LOCATION: 990' FSL & 330' FWL (M), SEC. 12, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: S. W. EATON (JH) #8

BLM TRACT NUMBER: 42 **API NUMBER:** 3002522061

SPUD DATE: 3/21/67

KB: 3124' GL: 3111' TD: 6200' PBTD: 6170'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"			960'	500 sxs cmt, circ
5-1/2"			6200'	580 sxs cmt, (TOC @ 2245' - TS)

LOGS:

Date	Company	Log Name
4/11/67	Schlumberger	Sonic, LL, MLL

DST's:

INITIAL COMPLETION: IP Blinebry (5341-5533') Flwd 259 BO, 31 BW, 780# TP
Tubb/Drinkard (5780-6142'), Flwd 288 BO, 158 BW, 200# FTP, 32/64" choke, 182 MCF

INITIAL COMPLETION DATE: 4/28/67

TREATMENTS AND WORKOVERS

Blinebry Perfs: 5341', 47', 53', 60', 92', 5406', 54', 71', 97', 5514', 33'.
A/1500 gals. F/20,000 gals GBW, and 20,000# Sd

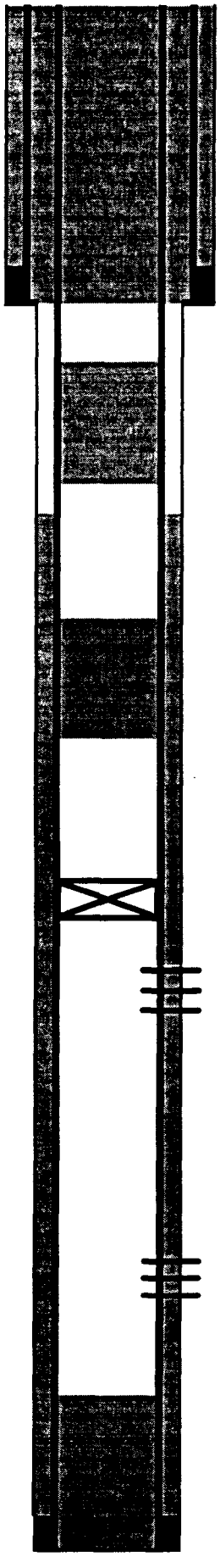
Tubb/Drinkard: 5780', 87', 93', 5800', 43', 73', 79', 5928', 76', 84', 97', 6014', 28', 44', 56', 64', 79', 86', 94', 6110', 18', 42'.
A/2000 gals. F/30,000 gals GBW, 45,000# Sd.

11-70 Added new Blinebry perfs at 5088', 92', 5112', 41', 54', 57', 69', 94', 5225', 50', 75', 84', 5300', 06'.
F/80,000 gals, 120,000# (5088-5533')

SOUTH JUSTIS UNIT "E" #14

1-72	Frac'd Tubb/Drinkard w/100,000 gals BW, 120,000# sd, 1500 gals 15% NEA. 25 BPM, MXP 4900#, MIN 4000#, ISIP 1600#. Form broke - 4500#, IP F 93 BO - 72 hrs, CF 75# OPT Blinebry 61 BO, 222 MCF, Tubb/Drinkard 37 BO, 34 MCF
4-72	Set pkr @ 6007' and F/20,000 gals GBW, 18,000# sd. MXP 4700, MIN 3900, AIR 14 BPM, ISIP 2500#.
6-91	Set plugs at 5670' and 5020' to TA well while title is cured.

WELLBORE SCHEMATIC



S. W. Eaton (JH) #10

ARCO Oil and Gas Company
500' FSL & 1650' FWL (N)
Sec. 12, T-25S, R-37E, Lea Co., NM
KB 3106'
Spudded 07/21/67
Completed 08/26/67

Cement Plug @ 0' to 1050'.

11" hole.
8-5/8" casing @ 950'.
Set w/500 sxs cmt. Circ.

Cement Plug @ 2190' to 2290'

TOC @ 2345' by TS.

Cement Plug @ 3530' to 3630'

CIBP 5050'

Blinebry perfs @ 5103' to 5602'.

Tubb/Drinkard perfs @ 5775' to 6138'

PBD @ 6142'

7-7/8" hole.
5-1/2" csg @ 6178' w/620 sxs cmt.

TD @ 6200'.

S. W. EATON (JH) #10

LOCATION: 500' FSL & 1650' FWL (N), SEC. 12, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: ARCO OIL AND GAS COMPANY

BLM TRACT NUMBER: 39 **API NUMBER:** 3002522204

SPUD DATE: 7/21/67

KB: 3106' GL: 3094' TD: 6200' PBTD: 6142'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"			950'	500 sxs cmt, circ
5-1/2"			6178'	620 sxs cmt, (TOC @ 2345' - TS)

LOGS:

Date	Company	Log Name
8/11/67	Lane Wells	Sonic

DST's:

INITIAL COMPLETION: IP Blinebry (5327-5602'), Flwd 144 BO, 136 BW, 278 MCF FTP, 100#, GOR 1930 on 26/64" choke
Tubb/Drinkard (5775-6138'), Frac'd 160 BO, 120 BW, FTP 180#, 211 MCF, GOR 13186, on 24/64" choke

INITIAL COMPLETION DATE: 8/26/67

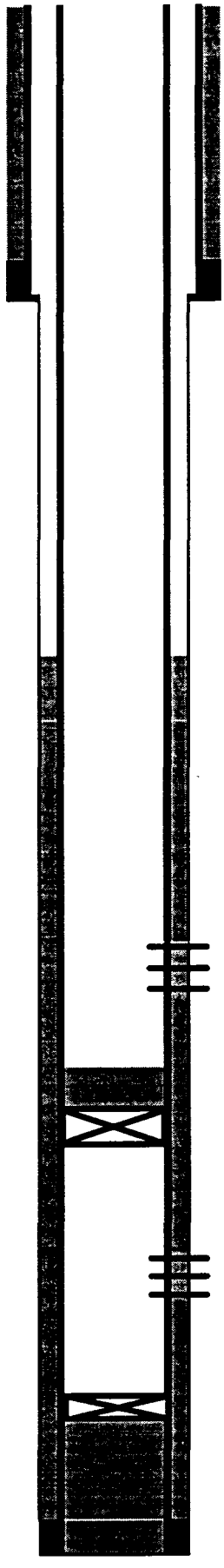
TREATMENTS AND WORKOVERS

Blinebry Perfs:	5327', 69', 98', 5408', 28', 35', 57', 5510', 22', 30', 57', 95', 5602'. Acidized w/2500 gals, Frac'd w/25,000 gals BW, 25,000# sd
Tubb/Drinkard Perfs:	5775', 80', 85', 90', 94', 5820', 37', 62', 69', 81', 5963', 88', 6052', 60', 74', 79', 6103', 6111', 23', 32', 38'. Acidized w/2500 gals, Frac'd w/30,000 gals BW, 30,000# sd
3-71	Added Blinebry perfs at 5103', 12', 26', 39', 49', 66', 75', 92', 97', 52, 56', 61', 71', 85', 89', 93. Acidized w/1500 gals, Frac'd w/80,000 gals,120,000#

S. W. EATON (JH) #10

3-72	Set pkr @ 6007'. F/6052-6132' w/500 gals NEA, 20,000 gals BW, 18,000# SD. MX-4700, MN-3900. AIR 14 BPM, ISIP 2200 Blinebry IP: 110 BO, Tubb/Drinkard: 15 BO, 41 MCF
1984	Shut-In
7-91	Attempted to TA. Found tbg in well-stuck. Cut tbg at 5110'. Set CIBP @ 5050'. Attempted to pressure csg. Circulated water outside surface pipe. SI.
9-91	TA'd well w/cmt plugs 3530-3630', 2190-2290', Surf-1050'

WELLBORE SCHEMATIC



South Justis Unit G #14

(ARCO S. E. Eaton (JH) #12)
430' FSL & 2310' FEL (O)
Sec. 12, T-25S, R-37E, Lea Co., NM
KB 3106'
Spudded 08/04/71
Completed 10/05/71

13-3/8" hole.
9-5/8" casing @ 950'.
Set w/625 sxs cmt. Circ.

TOC @ 2860' by TS.

Blinebry perfs @ 5157' to 5302'.

PBD @ 5333'
BP @ 5368'

Tubb/Drinkard perfs @ 5827' to 6219'

CIBP @ 6092'

8-3/4" hole.
7" csg @ 6302' w/600 sxs cmt.

TD @ 6302'.

SOUTH JUSTIS UNIT "G" #14

LOCATION: 430' FSL & 2310' FEL (O), SEC. 12, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: S. E. EATON (JH) #12

BLM TRACT NUMBER: 45 **API NUMBER:** 3002523838

SPUD DATE: 8/4/71

KB: 3106' GL: 3095' TD: 6302' PBTD: 5333'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"	32#		950'	625 sxs cmt, circ
7"	20, 23, 26#		6302'	600 sxs cmt (TOC @ 2860' - TS)

LOGS:

Date	Company	Log Name
9/1/71	Welex	SNP, Guard, FoRxo

DST's:

INITIAL COMPLETION: IP Blinebry (5157-5302'), Flwd 350 BO, 350 BW, 331 MCF
TP 3100#, GOR 945, GOR 37°, 48/64" choke
Tubb/Drinkard (5827-5919') Flwd 112 BO, 30 BW, 194 MCF
TP 100#, on 32/64" choke

INITIAL COMPLETION DATE: 10/5/71

TREATMENTS AND WORKOVERS

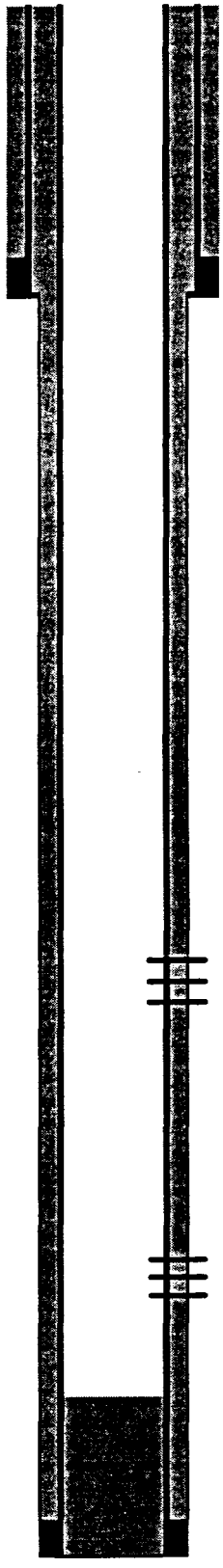
Cores: 5156-5407' (Blinebry)

Blinebry Perfs: 5157', 60', 63', 66', 69', 72', 76', 79', 82', 85', 88', 5203', 06' 09', 12', 74', 76', 99', 5302'.
Acidized w/1000 gals, Frac'd w/40,000 gals, 60,000#

SOUTH JUSTIS UNIT "G" #14

Tubb Perfs: (9-71)	5827', 30', 33', 36', 39', 42', 45', 58', 71', 74', 77', 87', 90', 92', 5914', 17', 19. Acidized w/5000 gals, Frac'd w/40,000 gals, 60,000#
Drinkard Perfs: (9-71)	6158', 66', 71', 74', 77', 80', 83', 90' & 93'. Acidized w/2050 gals. Frac'd w/40,000 gals GBW and 18,000# SD.
Drinkard Perfs: (9-71)	6119', 36', 39', 44', 46', 48', 53', 57', 65', 72', 79', 81', 88', 91', 94', 6201', 06', 10', 14', 17', 19', Frac'd w/20,000 gals, 20,000# SD. Set CIBP @ 6092'.
6-79	Set BP @ 5368'. Dumped 7 sxs cmt. PBD 5333'. Complete as a single Blinebry well.

WELLBORE SCHEMATIC



South Justis Unit H #15

(Pacific Enterprises Carlson B-13 #8)
990' FNL & 990' FEL (A)
Sec. 13, T-25S, R-37E, Lea Co., NM

Spudded 06/12/78
Completed 10/20/78

12-1/4" hole.
8-5/8" casing @ 1149'.
Set w/600 sxs cmt. Circ.

Blinebry perfs @ 5183' to 5459'.

Inactive Tubb/Drinkard perfs @ 5804' to 5963'

PBD @ 6152'

7-7.8" hole.
5-1/2" csg @ 6200' w/1700 sxs cmt. Circ.

TD @ 6200'.

SOUTH JUSTIS UNIT "H" #15

LOCATION: 990' FNL & 990' FEL (A) SEC. 13, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: PACIFIC ENTERPRISES

FORMER WELL NAME: CARLSON B-13 #8

BLM TRACT NUMBER: 25 **API NUMBER:** 3002525520

SPUD DATE: 6/12/78

KB: GL: 3055' TD: 6200' PBTD: 6152'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"			1149'	600 sxs cmt, circ
5-1/2"			6200'	1700 sxs cmt, circ

LOGS:

Date	Company	Log Name
		CNDL, DILL, LATL

DST's:

INITIAL COMPLETION: IP Tubb (5804-5963'), P 19 BO, 8 BW, GOR 620, Gravity 35.6°

INITIAL COMPLETION DATE: 10/20/78

TREATMENTS AND WORKOVERS

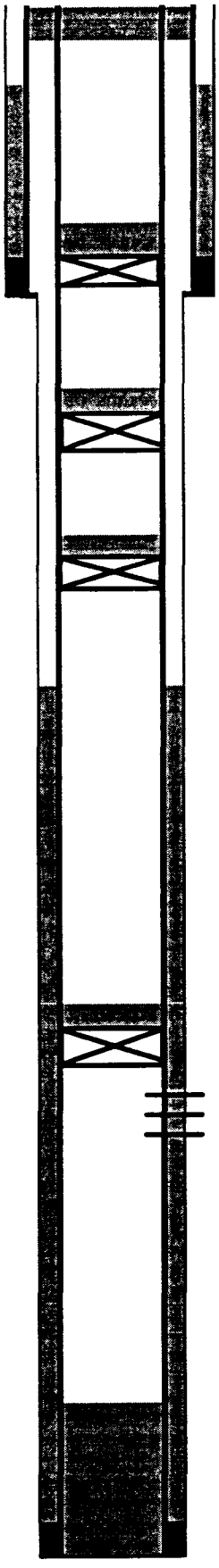
Tubb Perfs:	(5804-5963') 40 shots, acidized w/2500 Frac'd w/35,000 gals, 42,000#
7-81	Blinebry perfs 5183-5459', IP Pumped 14 BO, 44 BW, GOR 1643

WELLBORE SCHEMATIC

Cmt Plug (41 sxs) @ Surface to 100'

TOC @ 219' (Calcuated).

12-1/4" hole.
8-5/8" casing @ 987'.
Set w/900 sxs cmt.



Carlson B-13 #7

Pacific Enterprises (Terra Resources)
990' FNL & 2200' FEL (B)
Sec. 13, T-25S, R-37E, Lea Co., NM
KB 3097'
Spudded 03/03/66
Completed 04/02/66

CR @ 989' w/35 sxs cmt

CR @ 1220' w/37 sxs cmt

CR @ 1617' w/37 sxs cmt

TOC @ 4100' by TS

CIBP @ 5080 w/25 sxs cmt

Blinebry perfs @ 5200' to 5443'.

PBD @ 5555'

7-7/8" hole.
4-1/2" csg @ 5600' w/233 sxs cmt.

TD @ 5600'.

CARLSON B-13 #7

LOCATION: 990' FNL & 2200' FEL (B), SEC. 13, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: TERRA RESOURCES

BLM TRACT NUMBER: 51 **API NUMBER:** 3002521667

SPUD DATE: 3/3/66

KB: 3097' GL: 3087' TD: 5600' PBTD: 5555'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"			987'	900 sxs cmt
4-1/2"			5600'	233 sxs cmt

LOGS:

Date	Company	Log Name
3/28/66	Lane Wells	GR-N

DST's:

INITIAL COMPLETION: IP Blinebry (5200-5443'), Flwd 360 BOPD, TP 600, 18/64" ck

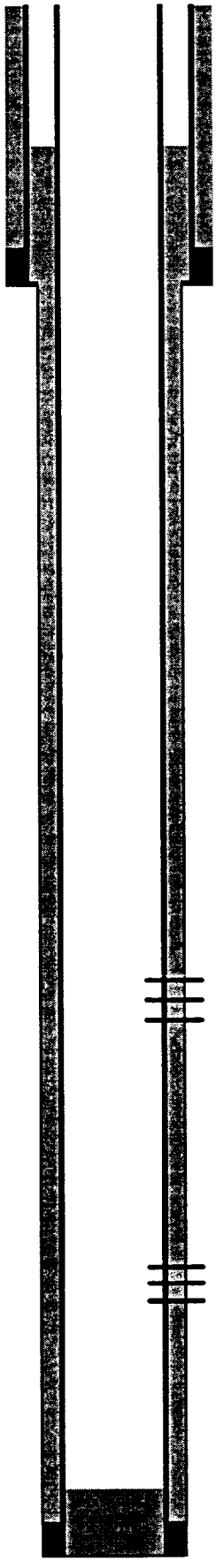
INITIAL COMPLETION DATE: 4/2/66

TREATMENTS AND WORKOVERS

Blinebry Perfs: 5200', 24', 44', 69', 84', 5322', 40', 61', 93', 5409', 26', 34', 43', Acidized w/500, Frac'd w/25,000 gals GO, 25,000# sd

12-8-84 P&A'd

WELLBORE SCHEMATIC



South Justis Unit F #15

(Meridian Blocker Fed #7)
890' FNL & 1650' FWL (C)
Sec. 13, T-25S, R-37E, Lea Co., NM
KB 3097'
Spudded 01/21/60
Completed 04/23/60

TOC @ 730'
12-1/4" hole.
9-5/8" casing @ 863'.
Set w/400 sxs cmt. Circ.

Blinebry perfs @ 5350' to 5390'.

Inactive Tubb/Drinkard perfs @ 5850' to 5890'

8-3/4" hole.
7" csg @6069' w/700 sxs cmt.

PBD @ 6065'
TD @ 6069'.

SOUTH JUSTIS UNIT "F" #15

LOCATION: 890' FNL & 1650' FWL (C), SEC. 13, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: MERIDIAN

FORMER WELL NAME: BLOCKER FED #7

BLM TRACT NUMBER: 49 **API NUMBER:** 3002511559

SPUD DATE: 1/21/60

KB: 3097' GL: 3086 TD: 6069' PBTD: 6065'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"			863'	400 sxs cmt, circ
7"			6069'	700 sxs cmt (TOC @ 730' - TS)

LOGS:

Date	Company	Log Name
3/18/60	Lane Wells	GR-N

DST's:

1	4960-5005'	Op 1', rec 360 GCM, FP 1055-465,15" SI 1245

INITIAL COMPLETION: IP Blinebry (5350-90'), F 100 BO, GOR 568, TP 710#, Gravity 37.3°
Tubb/Drinkard (5850-80'), P 101 BO, 421 GOR, 35.4°

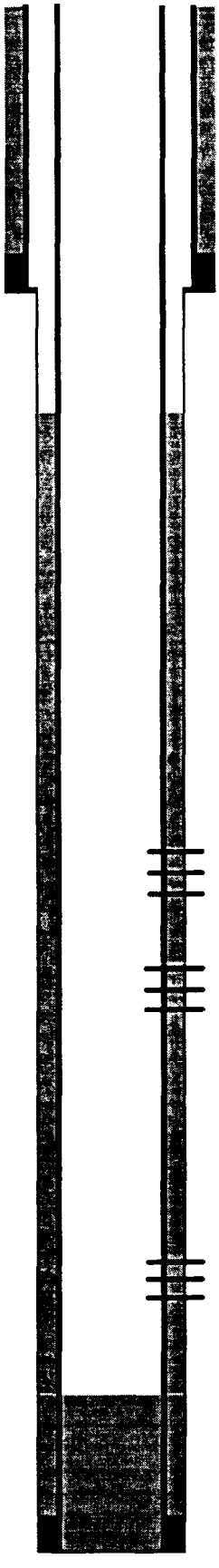
INITIAL COMPLETION DATE: 4/23/60

TREATMENTS AND WORKOVERS

Blinebry: 5350-90' (80), acidized w/500 SOF 10,000

Tubb/Drinkard: 5850-80' (60), acidized w/2000 SOF 15,000

WELLBORE SCHEMATIC



South Justis Unit E #15

(Meridian Blocker Fed #6)
990' FNL & 330' FWL (D)
Sec. 13, T-25S, R-37E, Lea Co., NM
KB 3114'
Spudded 12/07/59
Completed 06/08/60

12-1/4" hole.
9-5/8" casing @ 852'.
Set w/400 sxs cmt. Circ.

TOC @ 1610'

Sqzd Paddock perfs @ 4976' to 4990'.

Blinebry perfs @ 5075' to 5686'.

Tubb/Drinkard perfs @ 5806' to 5890'

PBD @ 5957'

8-3/4" hole.
7" csg @ 5991' w/460 sxs cmt.

TD @ 5992'.

SOUTH JUSTIS UNIT "E" #15

LOCATION: 990' FNL & 330' FWL (D), SEC. 13, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: MERIDIAN

FORMER WELL NAME: BLOCKER FED #6

BLM TRACT NUMBER: 15 **API NUMBER:** 3002511558

SPUD DATE: 12/7/59

KB: 3114' GL: 3113' TD: 5992' PBTD: 5957'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"			852'	400 sxs cmt, circ
7"			5991'	460 sxs cmt

LOGS:

Date	Company	Log Name
12/27/59	Welex	GR-N, Guard, FoRxo

DST's:

1	4910-5010	Open 1', Rec 10' HGCM, 270' SLGCM, FP 130-155, SI 30"-330
2	5830-5900'	Open 2', rec 350' HGCM, 30" SI-2294, FP 90-195, SI 30"-2478'

INITIAL COMPLETION: IP Blinebry (5416-36'), F 145 BO, 9 BW, 850#
Tubb/Drinkard (5806-90'), F 36 BO

INITIAL COMPLETION DATE: 6/8/60

TREATMENTS AND WORKOVERS

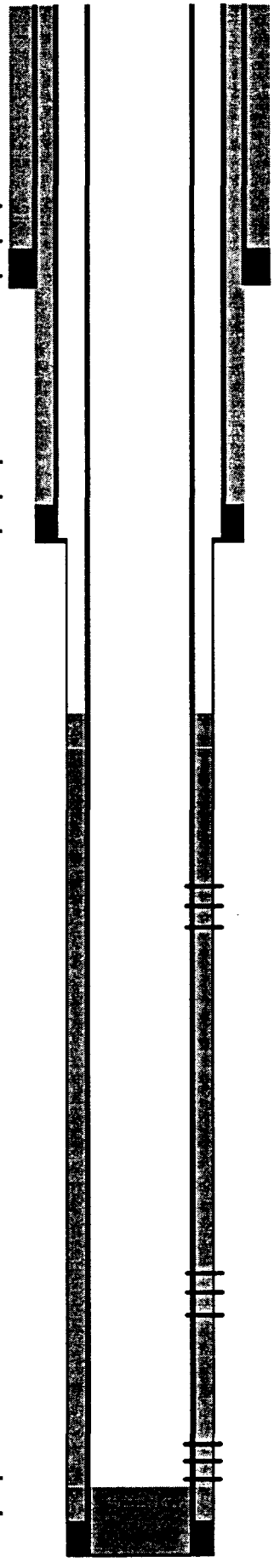
Blinebry perfs: 5416-36' (80 shots), Frac'd w/10,000 gals & 10,000#

Tubb/Drinkard: 5806-14' (32 shots), 5820-26' (24 shots), 5842-46' (16 shots) 5806-90' (64 shots). Acidized w/2000 gals

SOUTH JUSTIS UNIT "E" #15

Paddock perfs:	4976-90', Acidized w/1200 gals, squeezed w/400 sxs
5-70	New Blinebry perfs 5470-5686' (21 shots) Acidized w/1000, Frac'd w/10,000 gals, 17,500#, Perf 5075-91' (4) Frac'd w/20,000 gals, 35,000#

WELLBORE SCHEMATIC



South Justis Unit E #16

(Meridian Blocker Fed #5)
2310' FNL & 750' FWL (E)
Sec 13, T-25S, R-37E, Lea Co., NM
KB-3100'
Spudded 05/21/59
Completed 08/14/59

17-1/2" Hole.
13 3/8" casing @ 563'.
Set w/500 sxs cmt. Circ.

12-1/4" Hole.
8-5/8" casing @ 3290'.
Set w/2600 sxs cmt. Circ.

TOC @ 2139' (Calculated)

Paddock perfs 4925'-4971'.

Blinebry perfs 5196' to 5647'.

7-7/8" hole.
5-1/2" csg @ 5978' w/630 sxs cmt.

Tubb/Drinkard perfs 5950'-5976'.
PBD @ 5978'.
TD @ 5980'.

SOUTH JUSTIS UNIT "E" #16

LOCATION: 2310' FNL & 750' FWL (E), SEC. 13, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: MERIDIAN

FORMER WELL NAME: BLOCKER FED #5

BLM TRACT NUMBER: 15 **API NUMBER:** 3002511557

SPUD DATE: 5/21/59

KB: 3100' GL: 3088' TD: 5980' PBTD: 5978'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			563'	500 sxs cmt, circ
8-5/8"			3290'	2600 sxs cmt, circ
5-1/2"			5978'	630 sxs cmt

LOGS:

Date	Company	Log Name
6/23/59	Welex	GR-N, I-ES

DST's:

1	4930-70'	Open 2', rec 150' wtr, 65' OGCM, 120' HGSOCM, FP 55-165, SI 30"-990
2	5190-5330'	Open 5', rec 1300' oil, 190 OGCM, FP 110-385, SI 30"-1865'
3	5305-90'	Open 4', rec 150' oil, 330 HOGCM, FP 90-190, SI 30"-1840
4	5900-80'	Open 5', rec 230' oil, 240' HOGCM, FP 70-165, SI 30"-3175

INITIAL COMPLETION: IP Drinkard (5950-76'), P 25 BO, 1/2 BW, GOR1763, Gravity 36°

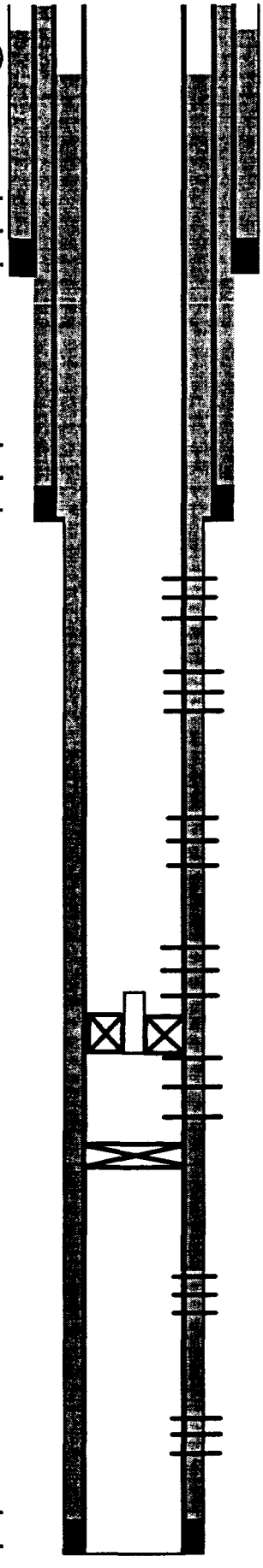
INITIAL COMPLETION DATE: 8/14/59

SOUTH JUSTIS UNIT "E" #16

TREATMENTS AND WORKOVERS

7-85	Perf Paddock 4925-4971' w/14 shots. Acidized w/1000 IP pumped 15 BO, 5 BW
	Blinebry perfs 5196-5242', 5260-5350', 5364-5475', 5505-5647'
9-24-84	Set RBP at 5025' and recompleted to Paddock
3-89	Returned to Blinebry and Tubb/Drinkard

WELLBORE SCHEMATIC



TOC @ 109' (Calculated)
TOC @ 170' (Measured)

17-1/2" Hole.
13 3/8" casing @ 565'.
Set w/400 sxs cmt.

12-1/4" Hole.
9-5/8" casing @ 3390'.
Set w/1775 sxs cmt. Circ.

8-3/4" hole.
7" csg @ 7019' w/1050 sxs cmt.

South Justis Unit F #16

(Meridian Blocker Fed #4)
2310' FNL & 1980' FWL (F)
Sec 13, T-25S, R-37E, Lea Co., NM
KB-3095'
Spudded 08/27/58
Completed 11/13/58

Sqzd Paddock perfs 4915' to 4935'.

Blinebry Perfs @ 5032' to 5371'

Sqzd Blinebry Perfs 5049' to 5369'.

Tubb/Drinkard Perfs @ 5417' to 5915'

Baker FA pkr w/junk @ 5650'
Sqzd Tubb/Drinkard Perfs 5693' to 5890'.

Plug @ 6050'

Fusselman Perfs @ 6822' to 6975'

Sqzd Fusselman Perfs 6900' to 7017'.

TD @ 7020'.

SOUTH JUSTIS UNIT "F" #16

LOCATION: 2310' FNL & 1980' FWL (F), SEC. 13, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: MERIDIAN

FORMER WELL NAME: BLOCKER FED #4

BLM TRACT NUMBER: 49 **API NUMBER:** 3002511556

SPUD DATE: 8/27/58

KB: 3095' GL: 3095' TD: 7020' PBTD: 7018'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"	48#	H-40	565'	450 sxs cmt, (TOC @ 109' - Calc'd)
9-5/8"	36#	J-55	3390'	1775 sxs cmt, circ
7"	26#	N-80	7019'	1050 sxs cmt, (TOC @ 170' - TS)

LOGS:

Date	Company	Log Name
10/12/58	Welex	GR, I-ES

DST's:

1	Langlie Mattix	3160-3215	Open 2', Gas 5", 250' HGCM, FP 142-155, SI 30"-450
2	Glorieta	4665-4730'	Open 2', rec 300' HGCSWCM, FP 95, SI 30"-1314'
3	Glorieta	4730-4800'	Open 2', rec 340' HGCSW, 110 SWCM, FP 130-190, SI 30"-712
4	Glorieta	4899-4975'	Open 2', rec 10' oil, 180' HOGCM, 110' SWCM, FP 130-190, SI 30"-712
5	Blinebry	5180-5285'	Open 2', rec 32' oil, 100 CM, 170' mud, FP 90-120, 30" SIP 220
6	Blinebry	5301-90'	Open 1.5', rec 30' HOGCM, 150' SOGCM FP 95-120, 30" SIP 350

SOUTH JUSTIS UNIT "F" #16

7	Drinkard	5960-6035'	Open 2', rec 60' HGCM, 820' HOGCM, 730' GCXW, FP 85-705, SI 30"-2318'
8	Fusselman	6890-6930'	Open 2', rec 10' oil, 30" HOGCM, 100' SOGCM, FP 45-70, 30" SIP-185
9	Fusselman	6970-7020'	Open 6', 2069 BO, RBS 30' oil, FP 440-1960, 30" SIP 2385

INITIAL COMPLETION: IP Fusselman (6996-7017'), P 52 BO, 52 BW

INITIAL COMPLETION DATE: 11/13/58

TREATMENTS AND WORKOVERS

6-59 Add Drinkard Perfs 5944-5970' (5 SPF) A/4000 gals. IP 72 BO, 108 BW

6-63 Sqzd Fusselman 6996-7017' w/50 sx

12-64 Perf Tubb/Drinkard @ 5693', 5714', 65', 70', 5824', 46', 61', & 90'. A/3000 gals. IPF 106 BO, 26 BW & 77 MCFD. Perf Blinebry @ 5049', 5110', 42', 60', 66', 89', 5212', 46', 56', 78', 5314', 29', 69'. A/1080 gals. F/30,000 gals LO, 37,000# SD, IPF 160 BO, 537 MCF. Perf Tubb/Drinkard @ 5693', 5714', 65', 70' 5824', 46', 61', 90'. A/3000 gals, IPF 106 BO, 26 BW, 79 MCF.

3-65 Perf Fusselman 6900-30' w/2 spf, A/7500 gals. IPP 13 BO, 13 BW, 36 MCFD, Sqzd w/50 sxs

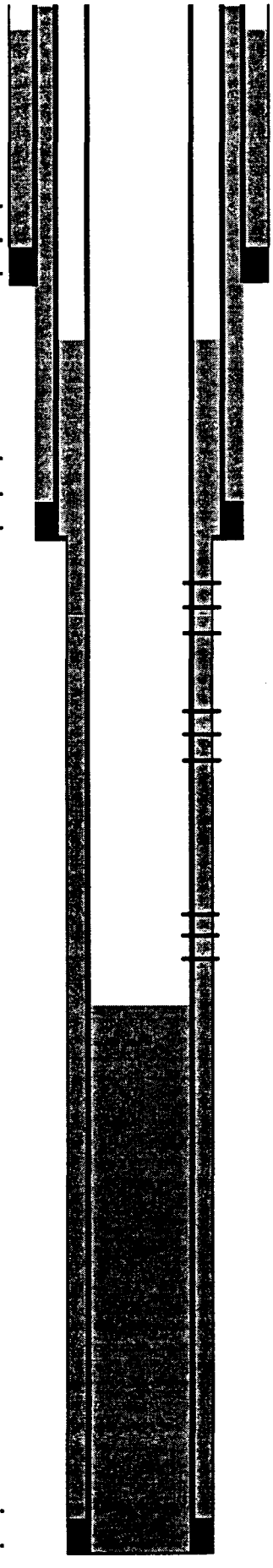
3-66 Sqzd Blinebry (5049-5369' w/100 sxs) & Tubb/Drinkard (5693-5890') w/45 sxs. Perf Fusselman @ 6822', 27', 72', 89', 6904', 13', 22', 30', 34', 44', 6955', 57', 64', 67'. A/2500 gals, F/20,000 gals BW, 30,000# SD. Set Baker "D" pkr w/DR Plug @ 6050'. Perf Tubb/Drinkard @ 5694', 5716', 27', 45', 56', 69', 88', 95', 5823', 27', 48', 63', 91', 5915'. A/500 gals. F/17,000 gals GBW & 17,000# SD. Perf Blinebry @ 5032', 55', 96', 5100', 20', 39', 45', 58', 64', 5201', 16', 26', 44', 57', 65', 80', 5309', 17', 33', 61', 71'. F/15,000 gals GBW & 20,000# SD. Perf Tubb/Drinkard @ 5417', 23', 37', 63', 74', 92', 5504', 18', 44', 89', 5601', 09', 15'. A/1000 gals, F/13,000 gals GBW & 22,500# SD.

8-83 Set CIBP @ 5000' w/35' cmt. Perf Paddock 4915-35'. A/500 gals, F/20,000 gals X-Link wtr & 40,000# SD. IPF 10 BO, 37 BW, 35 MCF.

4-89 CO to 5642'. Baker FA pkr w/junk on top @ 5650'. Acidized Paddock, Blinebry, Tubb/Drinkard w/10,000 gals. Sqzd Paddock.

5-92 Active Blinebry & Tubb/Drinkard well.

WELLBORE SCHEMATIC



South Justis Unit G #16

(Pacific Enterprises Carlson B-13 #5)
2310' FNL & 1980' FEL (G)
Sec 13, T-25S, R-37E, Lea Co., NM
KB-3099'
Spudded 12/08/57
Completed 05/03/58

17-1/2" Hole.
13 3/8" casing @ 435'.
Set w/450 sxs cmt. Circ.

TOC @ 1005' (Calculated)

12-1/4" Hole.
9-5/8" casing @ 3442'.
Set w/1395 sxs cmt. Circ.

Sqzd Paddock perfs 4960' to 4995'.

Blinebry perfs 5063' to 5449'.

Tubb/Drinkard perfs 5772'-5978'.

PBD @ 5985'.

7-7/8" hole.
5-1/2" csg @ 8774' w/1275 sxs cmt.

TD @ 8870'.

SOUTH JUSTIS UNIT "G" #16

LOCATION: 2310' FNL & 1980' FEL (G), SEC. 13, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: PACIFIC ENTERPRISES

FORMER WELL NAME: CARLSON B-13 #5

BLM TRACT NUMBER: 25 **API NUMBER:** 3002511579

SPUD DATE: 12/8/57

KB: 3099' GL: 3087' TD: 8776' PBTD: 5985'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			435'	450 sxs cmt, circ
9-5/8"			3442'	1395 sxs cmt, circ
5-1/2"			8774'	1275 sxs cmt, (TOC @ 1005' - Calc'd)

LOGS:

Date	Company	Log Name
2/18/58	Schlumberger	I-ES, ML
2/26/58	Western	GR-N
5/4/65	Lane Wells	GR-N

DST's:

1	Glorieta	4700-4850'	Open 1', Gas 9", Rec 270' Heavily OGCM, FP 175-200, SI 30" 1355
2	Blinebry	4960-5150'	Open 1', Gas 23", Rec 300' HOGCM (30% oil), 180' HOGSWCM (30% oil), FP 345-1735, SI 30"/2615
3	Drinkard	6000-80'	Open 1', 15 ", Rec 360' OGCM, FP 135-190, SI 45"-2155
4	Drinkard	6090-6200'	Open 1-1/2', gas 35 min, rec 30' oil, 360' HOGCM, 270' SW, FP 175-305, SI 45"/2040
5	Fusselman	6890-7075'	Open 1', rec 6484' HGCM & SW FP 1540-2795, 45"/2795
6	Montoya	7534-7644'	(Omo) Open 1.5', gas 15 min, rec 60' OGCM, 720' HOGCM, 180' HOGCM w/sul odor; FP 310-445, SI 45"/1795

SOUTH JUSTIS UNIT "G" #16

7	McKee	7970-8093'	Open 1', rec 450' mud, NS; FP 215-270 SI, 45"/2285
8	Ellenburger	8598-8660'	Open 1', rec 270' mud, NS; FP 200-220, SI 45"/3370

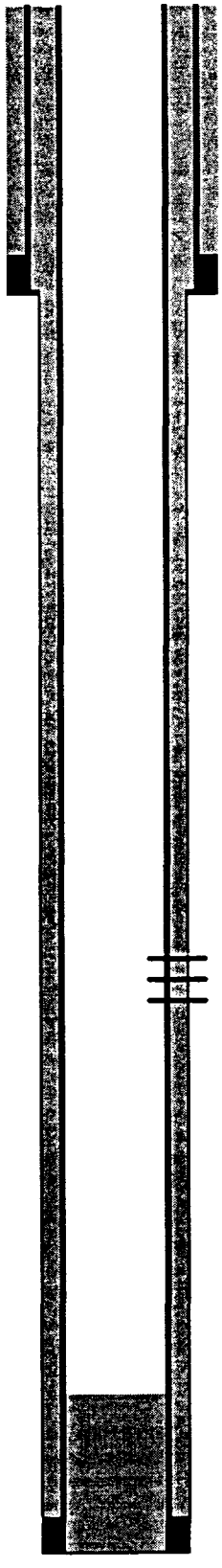
INITIAL COMPLETION: IP Paddock (4960-95'), w/140 shots) Flwd 352 BO, TP 1870#

INITIAL COMPLETION DATE: 5/3/58

TREATMENTS AND WORKOVERS

6-65	Blinebry perfs 5254-5449' w/13, Acidized w/5000, Frac'd 25,000
8-72	Squeezed Paddock perfs w/100 sxs, Perf Tubb/Drinkard 5772-5978' Frac'd w/65,000 gals, 180,000#, Additional Blinebry perfs 5063-5449'

WELLBORE SCHEMATIC



South Justis Unit H #16

(Pacific Enterprises Carlson B-13 #6)
2310' FNL & 990' FEL (H)
Sec. 13, T-25S, R-37E, Lea Co., NM
KB 3094'
Spudded 11/10/65
Completed 12/12/65

12-1/4" hole.
8-5/8" casing @ 1003'.
Set w/550 sxs cmt. Circ.

Blinebry perfs @ 5120' to 5480'.

PBD @ 5541'

7-7.8" hole.
5-1/2" csg @ 5575' w/1680 sxs cmt. Circ.

TD @ 5575'.

SOUTH JUSTIS UNIT "H" #16

LOCATION: 2310' FNL & 990' FEL (H), SEC. 13, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: PACIFIC ENTERPRISES

FORMER WELL NAME: CARLSON B-13 #6

BLM TRACT NUMBER: 25 **API NUMBER:** 3002521461

SPUD DATE: 11/10/65

KB: 3094' GL: 3086' TD: 5575' PBTD: 5541'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"			1003'	550 sxs cmt, circ
5-1/2"			5575'	1680 sxs cmt

LOGS:

Date	Company	Log Name
12/8/65	Lane Wells	GR-N

DST's:

INITIAL COMPLETION: IP Blinebry (5255-5480'), Flwd 225 BO, 22 BW, TP 300#, CP 400#, GOR 272, Gravity 38°

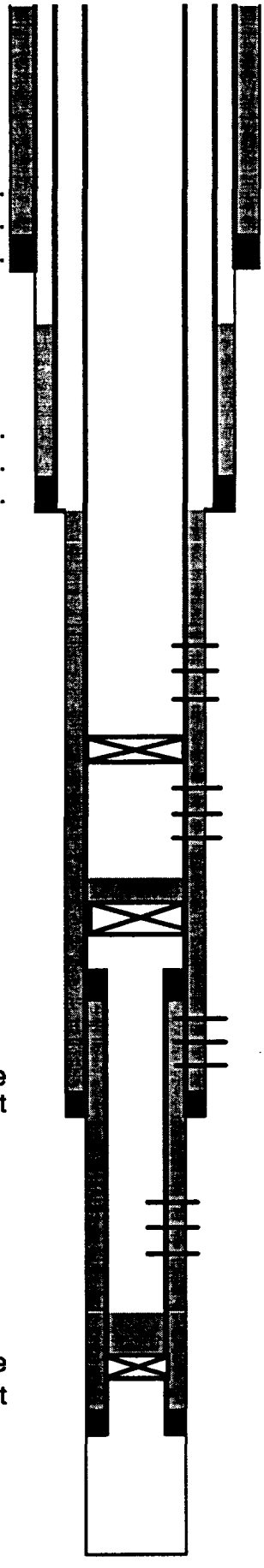
INITIAL COMPLETION DATE: 12/12/65

TREATMENTS AND WORKOVERS

Blinebry Perfs: 5255', 68', 79', 99', 5323', 46', 74', 82', 5401', 19', 27', 55', 80'. Acidized w/2000 gals, Frac'd w/25,000 gals oil, 25,000# sd.

12-72 Blinebry perfs 5120-5408' (62), acidized w/2000, Frac'd 25,000 gals, 25,000#.

WELLBORE SCHEMATIC



South Justis Unit H #17

(Chevron/ARCO L. McBuffington #12)
1650' FSL & 990' FEL (I)
Sec 13, T-25S, R-37E, Lea Co., NM
KB 3090'
Spudded 05/20/59
Completed 07/27/59

17-1/2" Hole.
13 3/8" casing @ 429'.
Set w/450 sxs cmt. Circ.

TOC @ 1475' by TS

12-1/4" Hole.
9-5/8" casing @ 3450'.
Set w/1450 sxs cmt.

TOC @ 3500' by TS

Blinebry perfs 5066' to 5108'.

CIBP @ 5175'.

Blinebry Perfs @ 5227' to 5545'

TOC @ 6990'
CIBP @ 7000'.

Top of Liner @ 7054' by CBL

Perfs @ 7162' to 7174'

8-3/4" Hole
7" casing @ 7230' w/1150 sxs cmt

P&A'd 02/72
McKee Perfs 7681'-7815'.

TOC @ 7828'
CIBP @ 7840'

7-7/8" Hole
4-1/2" Liner @ 7904' w/590 sxs cmt

TD @ 8620'.

SOUTH JUSTIS UNIT "H" #17

LOCATION: 1650' FSL & 990' FWL (I), SEC. 13, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: CHEVRON/ARCO OIL AND GAS COMPANY

FORMER WELL NAME: McBUFFINGTON #12

BLM TRACT NUMBER: 47 **API NUMBER:** 3002511573

SPUD DATE: 5/20/59

KB: 3090' GL: 3078' TD: 8620' PBTD: 5175'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"	48#		429'	450 sxs cmt, circ
9-5/8"	32-36#		3450'	1450 sxs cmt, (TOC @1475' - TS)
7"	23#		7230'	590 sxs cmt, (TOC @ 3500' - TS)
4-1/2" Lnr	11.6#	J-55	7054-7904'	500 sxs cmt, (TOC @ 7054' - CBL)

LOGS:

Date	Company	Log Name
6/29/59	Welex	GR-N, LL

DST's:

INITIAL COMPLETION: Original TD 8620', PB w/cmt & mud to 7185'. Perf 7162-74' w/.4-1/2" JHPF. Treated w/2500 gals 15% NEA. Swbd mostly w/wtr. Set CIBP @ 5650' cap w/2 sx cmt.
Perf 5227-29', 5281-83', 5295-97', 5308-10' 5330-32', 5353-55', 5478-80', 5510-12', 5543-45' w/4-1/2" JHPF.
Treated perfs w/1000 gals 15% NEA & 22,000 gals 22 gravity oil w/3 ppg sd in 5 stages.

INITIAL COMPLETION DATE: 7/27/59

SOUTH JUSTIS UNIT "H" #17

TREATMENTS AND WORKOVERS

1-66 Set RB @ 5320' and cmt ret @ 5200'. Sqzd perfs 5227-5310' w/200 sx cmt. C/O to 5550' (WO to eliminate high GOR). Tstd 39 BO/0 BW, 13 MCF, put on pump.

6-66 C/O hole to 7954'. Ran & set 4-1/2", 11.6# liner @ 7904', Top @ 7054' Cmtd w/500 sx, cmt circ to top of liner. Set CIBP @ 7840' and cap w/1 sx cmt. PBD @ 7828'. Perf 7681-7734', 7750-7777', & 7796-7815' w/1-1/2" JHPF. Acidized each set w/500 gals 15% NEA. Perf 5330-32', 5353-55' w/4-1/2" JHPF. Acidized each set w/250 gals XW26 by Dowell. Tested 46 BO/23 BW. Dual Blinebry and Tidewater Oil Corp. (McKee) Inj.

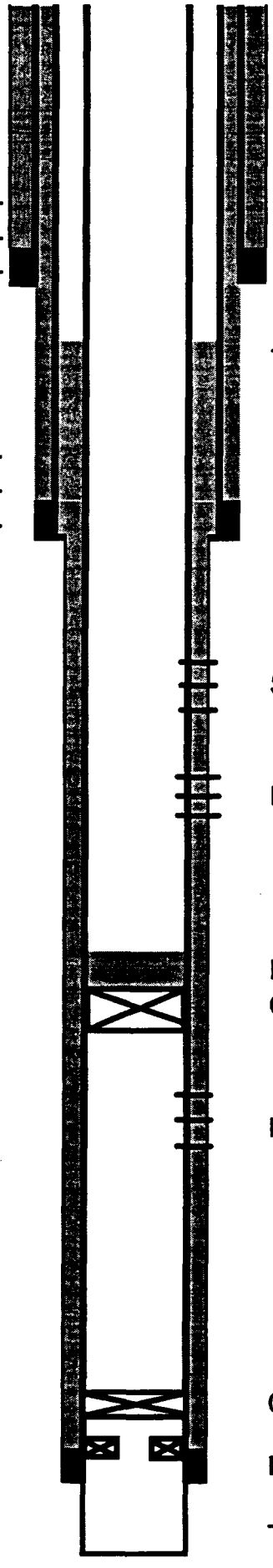
2-67 Perf 5227-29', 5281-83', 5308-10' w/4-1/2" JHPF

9-67 Set RBP. Dump 2 sx sd on top. Set pkr @ 6920' and squeezed w/50 sx cmt. D/O cmt to 7083'. POH w/RBP.

2-72 Pulled and washed McKee tbg. Set Baker CIBP @ 7000' and cap w/10' cmt. P&A McKee, PBD 6990'.

9-83 Set CIBP @ 5175', test 500# - held 5 min. Perf 5066-68', 5086-88', 5106-08' w/4-1/2" JHPF. Acidized w/3000 gals 15% NEFE HCL, 32 RCNB's. ISIP 600#, average pressure 2000#. Frac w/57,000 gals x-link brine 40,500# 20/40 sd, 110 RCNB's. Avg pressure 3000#, ISIP 600#. Well ppg 22 BO/86 BW.

WELLBORE SCHEMATIC



South Justis Unit G #17

(Chevron/ARCO Learcy McBuffington #5)
1650' FSL & 1980' FEL (J)
Sec 13, T-25S, R-37E, Lea Co., NM
KB-3087'
Spudded 11/16/57
Completed 01/11/58

17-1/2" Hole.
13 3/8" casing @ 423'.
Set w/400 sxs cmt. Circ.

TOC @ 2575' TS

12-1/4" Hole.
9-5/8" casing @ 3450'.
Set w/2350 sxs cmt. Circ.

Sqzd Paddock Perfs 4860' to 4946'.

Blinebry Perfs 5048' to 5538'.

PBD @ 6699'.
CIBP @ 6834'.

Montoya Perfs 6888'-7000' (sqzd).

CIBP @ 8136'

PKR @ 8150'.

8-3/4" hole.
7" csg @ 8260' w/1000 sxs cmt.

TD @ 8300'.

SOUTH JUSTIS UNIT "G" #17

LOCATION: 1650' FSL & 1980' FEL (J), SEC. 13, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: CHEVRON/ARCO OIL AND GAS COMPANY

FORMER WELL NAME: LEARCY McBUFFINGTON #5

BLM TRACT NUMBER: 47 **API NUMBER:** 3002511566

SPUD DATE: 11/16/57

KB: 3087' GL: TD: 8300' PBTD: 6799'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"	48		423'	400 sxs cmt, circ
9-5/8"	36		3450'	2350 sxs cmt, circ (TOC @ 2575' - TS)
7"	23		8260'	1000 sxs cmt,

LOGS:

Date	Company	Log Name
12/31/57	Schlumberger	GR-N, Electrical, ML

DST's:

INITIAL COMPLETION: IP Ellenburger (8260-8300'), Flwd 310 BOPD, 0 BWPD
Acidized OH w/500 gals MA. IP'd flwg.

INITIAL COMPLETION DATE: 1/11/58

TREATMENTS AND WORKOVERS

1-59 Dual Ellenburger & Paddock. Set Baker Model "C" pkr @ 8150'. Perf Paddock 4940' & 4946'. Acidized w/500 gals 15% HCl. Frac w/10,000 gals 21 Gravity oil & 30,000# 20-40 sd in 2 stages. Tested 160 BOPD/33 BWPD/2.2 MMCFPD. Temp log est gas entry 5000-5120. Perf @ 5000' & sqzd w/157 sxs cmt. Acidized Paddock w/500 gals MA. DO cmt & C/O hole. Dual Ellenburger & Paddock. Flwd 96 BOPD/24 BWPD/308 MCFPD.

SOUTH JUSTIS UNIT "G" #17

10-59 Acdz Ellenburger w/2000 gals 15% NEA, swbd 11 BOPD/422. Set plug in Baker Model "D" pkr & capped w/2 sxs cmt (TOC @ 8142'). Attempt to set CIBP but fell to cmt @ 8142'. Set CIBP @ 5570' w/2 sxs cmt, set BP @ 4895' w/1-1/2 sxs cmt. Perf 4880' & dmp 32 gal hydromite, TOC 4871'. Perf 4860', set cmt ret @ 4815', sqz gas channel w/122 sxs D/O & C/O hole to 5562'. Perf Blinebry 5286-88', 5307-09', 5341-43', 5375-77', 5505-07', 5536-38', w/4-1/2" JHPF. Frac w/24,000 gals oil & 72,000# sd. Run tbg, Paddock/Blinebry dual.

1-67 Pull Paddock tbg & flow Blinebry single, 105 BOPD/29 BWPD/745 MCFPD

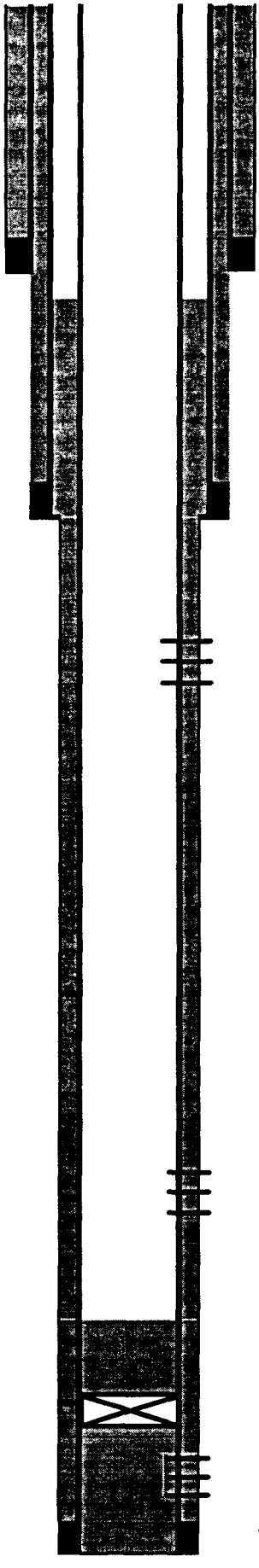
5-67 Sqzd Paddock & Blinebry perfs (4940-46', 5286-5538') w/480 sxs. D/O & C/O to 5562'. Perf Blinebry 5286-88', 5307-09', 5341-43', 5375-77', w/4 JHPF. Frac w/24,000 gal gel SW & 36,000# 20-40 sd.

2-73 D/O, CIBP @ 5570', C/O TO 7630'. Perf Montoya 6888-90', 6905-07', 6961-63', 6968-70' w/2 JHPF. Acdz w/750 gal 15% NEA.

3-80 Set CIBP @ 6834' w/35' cmt. P&A Montoya.

2-86 Set RBP @ 5270', locate csg lk 4860-5250' (old sqz perfs). Set cmt ret @ 4360'. Sqz old perfs w/200 sxs cmt. D/O cmt to 5257'. Perf 5048-5250' w/1 JHPF. Set pkr @ 4995. Acdz w/4000 gal 15% NEFE, drop 1 RCNB/3 bbl. Swb well. Frac w/65,200 gal 40# x-link gel & 244,500# 20/40 sd. Flow well. POH w/pkr. Bail SD to 5270', POH w/RBP. Ran rods & tbg 3-13-86. Pump 40 BO/4 BW & 145 MCFPD.

WELLBORE SCHEMATIC



Learcy McBuffington #9

Chevron
1650' FSL & 1980' FWL (K)
Sec 13, T-25S, R-37E, Lea Co., NM
KB-3094'
Spudded 06/28/58
Completed 11/12/58

TOC @ 2620' TS

17-1/2" Hole.
13-3/8" casing @ 419'.
Set w/450 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3449'.
Set w/1828 sxs cmt. Circ.

Sqzd Blinebry Perfs 4990' to 5404'.

Fusselman Perfs 6752' to 6890'.

PBD @ 6813'.

CIBP @ 6900'.

Sqzd Montoya Perfs 6940' to 7052'.

8-3/4" hole.
7" csg @ 7100' w/735 sxs cmt.

TD @ 7100'.

LEARCY McBUFFINGTON #9

LOCATION: 1650' FSL & 1980' FWL (K), SEC. 13, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: CHEVRON

BLM TRACT NUMBER: 47 **API NUMBER:** 3002511570

SPUD DATE: 6/28/58

KB: 3094' GL: 3078' TD: 7100' PBTD: 6813'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			419'	450 sxs cmt
9-5/8"	32-36#	H-40/J-55	3449'	1828 sxs cmt
7"	23#	J-55/N-80	7100'	735 sxs cmt

LOGS:

Date	Company	Log Name
8/4/58	Schlumberger	GR-N, ML, IES

DST's:

INITIAL COMPLETION: (8-58) Perf Montoya 6940-7052' spot 500 gal MA over perfs. Perf Fusselman 6752-6890', completed naturally

INITIAL COMPLETION DATE: 11/12/58

TREATMENTS AND WORKOVERS

10-65 Sqz perfs 7004-7052' w/25 sx cmt to 1000 psi. Leave cmt ret @ 6980'

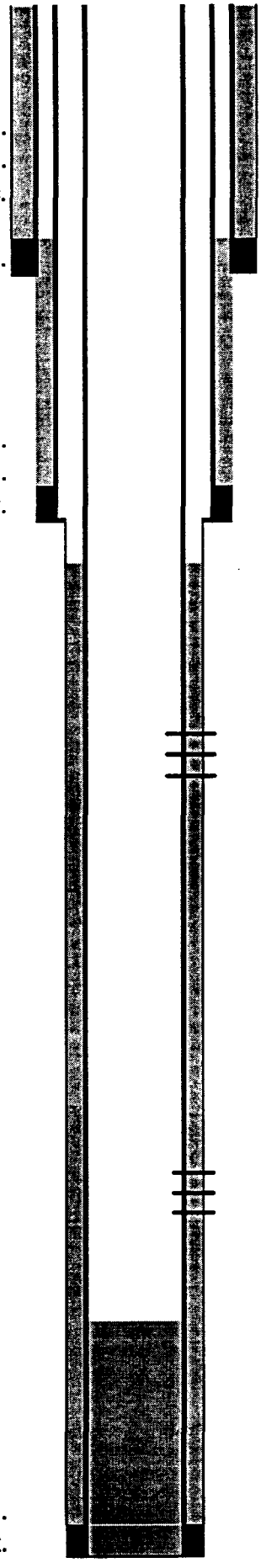
8-67 Set CIBP @ 6900' dump 2 sx cmt on top. Perf 7" csg 4990-5404' w/4-JHPF. Spot 500 gal acid over new perfs. Frac w/16,000 gal gel BW w/1-1/2 SPG 10-20 mesh sand.

7-70 Set RBP @ 5451' and cap w/3 sx sd. Test csg, found hole @ 4724'. Pmpd 150 sx Cl H, cmt w/.3% HLX 249 & 175 sx Cl H neat. Sqz both Blinebry perfs and hole. Test to 600#. Drld cmt to below Blinebry perfs. Tst csg to 300#. Pull RBP. Return to prod as Fusselman single.

WELLBORE SCHEMATIC

South Justis Unit E #17

(Chevron/ARCO L. McBuffington #10)
1650' FSL & 990' FWL (L)
Sec 13, T-25S, R-37E, Lea Co., NM
KB-3093'
Spudded 08/08/58
Completed 12/17/58



17-1/2" Hole.
13-3/8" casing @ 420'.
Set w/450 sxs cmt. Circ.

TOC @ 880 by TS.

12-1/4" Hole.
9-5/8" casing @ 3450'.
Set w/1685 sxs cmt.

TOC @ 4300'.

Blinebry Perfs 5328' to 5483'.

Tubb/Drinkard Perfs 5926' to 5946'.

PBD @ 6875'.

8-3/4" hole.
7" csg @ 7485' w/460 sxs cmt.

TD @ 7485'.

SOUTH JUSTIS UNIT "E" #17

LOCATION: 1650' FSL & 990' FWL (L), SEC. 13, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: L. McBUFFINGTON #10

BLM TRACT NUMBER: 47 **API NUMBER:** 3002511571

SPUD DATE: 8/8/58

KB: 3093' GL: 3075' TD: 7485' PBTD: 6875'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			420'	450 sxs cmt, circ
9-5/8"			3450'	1685 sxs cmt, (TOC @ 880' - TS)
7"		J-55/N-80	7485'	460 sxs cmt, (TOC @ 4300' - TS)

LOGS:

Date	Company	Log Name
9/15/58	Schlumberger	GR-N, ML, I-ES

DST's:

INITIAL COMPLETION: Perf Drinkard 5926-5946' w/4-1/2" JHPF, 380 BOPD, 0 BWPD, GOR 947

INITIAL COMPLETION DATE: 12/17/58

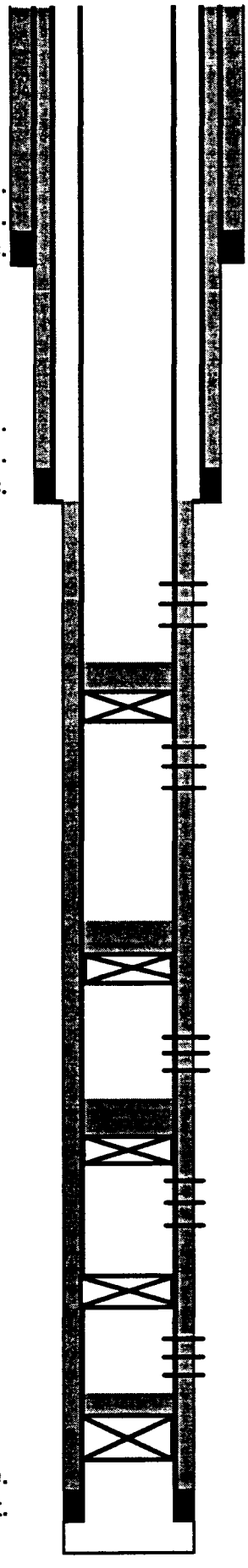
TREATMENTS AND WORKOVERS

10-59 Dual comp in Blinebry. Perf 5328-30', 5337-39', 5360-62' 5388-90', 5414-16', 5481-83' w/4-1/2" JHPF. Treated new perfs w/15,000 ref oil, 1/40# Adomite & 3# SPG

7-66 Set RBP @ 5380' and dumped sd to 5368'. Squeezed perfs 5328-62' w/150 sxs cmt, press 3500#. Drill cmt from 5275-5368' and test to 1000# for 30 min. C/O sd to 5380' and reset BP @ 5498'. Acidized perf 5388-90', 5414-16', 5481-83' w/750 gals 15% NEA

12-66 Re-perf prev sqzd perfs 5328-62' w/4-1/2" JHPF. Set RBP @ 5370' and acidized new perfs w/500 gals 15% NEA. Raised BP to 5350' and acidized w/1000 gals 15% NEA.

WELLBORE SCHEMATIC



Learcy McBuffington #7

Chevron
660' FSL & 990' FWL (M)
Sec 13, T-25S, R-37E, Lea Co., NM
KB-3099'
Spudded 03/14/58
Completed 09/30/58

17-1/2" Hole.
13 3/8" casing @ 416'.
Set w/425 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3456'.
Set w/780 sxs cmt. Circ.

TOC @ 3650' TS

Glorieta Perfs 4714' to 4831'.

TOC @ 5790'
Baker Model D Packer @ 5805'

Sqzd Tubb/Drinkard Perfs 5835' to 5950'.

TOC @ 6795'
CIBP @ 6800'.

Sqzd 6813'-6821'.

TOC @ 6795'
BP @ 6850'

Sqzd Perfs 6860' to 6884'.

CIBP @ 6915'.

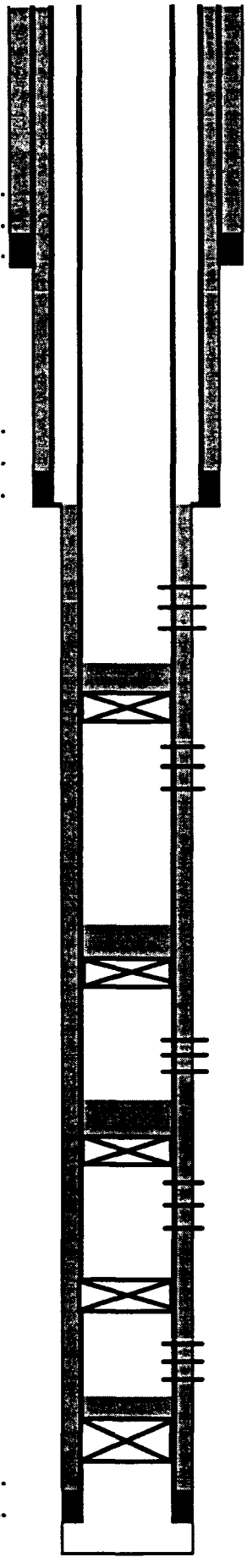
Sqzd Perfs 6924' to 7014'.

TOC @ 8490'
CIBP @ 8500'

8-3/4" hole.
7" csg @ 8518' w/185 sxs cmt.

TD @ 8608'.

WELLBORE SCHEMATIC



Chevron

Learcy McBuffington #7
660' FSL & 990' FWL (M)
Sec 13, T-25S, R-37E, Lea Co., NM
KB-3099'
Spudded 03/14/58
Completed 09/30/58

17-1/2" Hole.
13 3/8" casing @ 416'.
Set w/425 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3456'.
Set w/780 sxs cmt. Circ.

TOC @ 3650' TS

Glorieta Perfs 4714' to 4831'.

TOC @ 5790'
Baker Model D Packer @ 5805'

Sqzd Tubb/Drinkard Perfs 5835' to 5950'.

TOC @ 6795'
CIBP @ 6800'.

Sqzd 6813'-6821'.

TOC @ 6795'
BP @ 6850'

Sqzd Perfs 6860' to 6884'.

CIBP @ 6915'.

Sqzd Perfs 6924' to 7014'.

TOC @ 8490'
CIBP @ 8500'

8-3/4" hole.
7" csg @ 8518' w/185 sxs cmt.

TD @ 8608'.

LEARCY McBUFFINGTON #7

LOCATION: 660' FSL & 990' FWL (M), SEC. 13, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: CHEVRON

BLM TRACT NUMBER: 47 **API NUMBER:** 3002511568

SPUD DATE: 3/14/58

KB: 3099' GL: 3088' TD: 8608' PBTD:

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			416'	425 sxs cmt, circ
9-5/8"	32/36#		3456'	780 sxs cmt, circ
7"	23#		8518'	185 sxs cmt, (TOC @ 3650' - TS)

LOGS:

Date	Company	Log Name
5-23-58	Schlumberger	GR-N, ML, IES

DST's:

INITIAL COMPLETION: IP Justis Drinkard/Fusselman, P 105/254 BOPD, 0/0 BWPD

INITIAL COMPLETION DATE: 11/4/57

TREATMENTS AND WORKOVERS

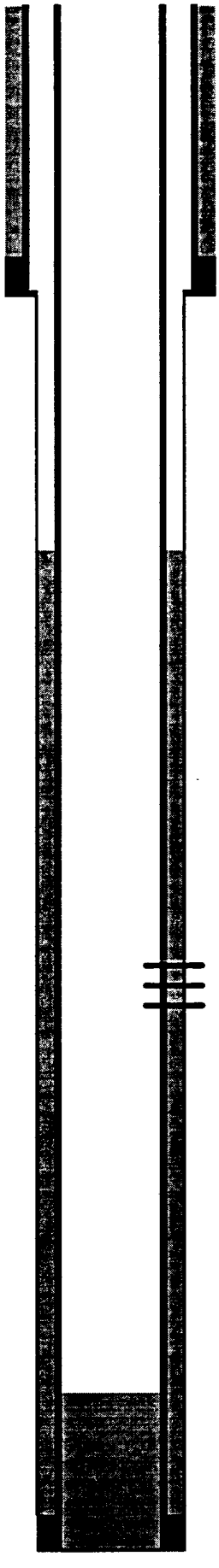
5-58 Set csg & set Baker CIBP @ 8500'. Perf 7" csg 5926-50', 6924-42', 6948-64', 6972-7014'. Pumped 500 gals MC acid into perfs 6924-7014', flush w/35 BO.

11-62 Sqzd perfs 6924-7014' w/150 sxs. Perf 6813-15', 6817-21' w/4 JHPF. Perf 6860-63', 6866-69', 6874-78', 6882-84' w/2 JHPF. Acidized w/500 gals 15% NEA, flush w/44 BW.

LEARCY McBUFFINGTON #7

12-67	Ran Baker BP, set @ 6850'. Pmpd 3 gals pea gravel & 17 gals cmt. Acidized perfs 6813-15' and 6817-21' w/1500 gals 15% NEA, flush w/41 bbls lease water
6-71	Set "DR" plug in Baker Model "D" pkr @ 6800', pmp 5 sxs. Perf 5835-37', 5860-62', 5891-93' w/2-1/2" JHPF. Trtd old perfs 5926-50' w/3000 gals 28% HCL. Flushed w/38 BW. Trtd new perfs w/4500 gals 28% HCL. Flushed w/24 BW.
3-72	Set Baker Model "D" pkr w/plug @ 5800'. Perf Glorieta 4714-4831' w/4-1/2" JHPF. Pmpd 2000 gals 15% NEA, dual comp Glorieta & Tubb/Drinkard.
4-79	Set plug in Baker Model "D" @ 5805'. Pump 15' cmt. Acidized Glorieta perfs w/500 gals 15% NEFE HCl w/1/2 gal HAI-50.

WELLBORE SCHEMATIC



Learcy McBuffington #13

Chevron
330' FSL & 330' FWL (M)
Sec. 13, T-25S, R-37E, Lea Co., NM
KB 3100'
Spudded 12/14/62
Completed 01/24/63

TOC @ 219' (Calcuated)

12-1/4" hole.
9-5/8" casing @ 907'.
Set w/410 sxs cmt. Circ.

TOC @ 3010' TS

Blinebry perfs @ 5097' to 5515'.

PBD @5545'

7-7/8" hole.
4-1/2" csg @ 5550' w/640 sxs cmt.

TD @ 5559'.

LEARCY McBUFFINGTON #13

LOCATION: 330' FSL & 330' FWL (M), SEC. 13, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: CHEVRON

BLM TRACT NUMBER: 47 **API NUMBER:** 3002520121

SPUD DATE: 12/14/62

KB: 3100' GL: 3090' TD: 5559' PBTD: 5545'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"			907'	410 sxs cmt
4-1/2"	9.5#		5550'	640 sxs cmt

LOGS:

Date	Company	Log Name
1/6/63	Schlumberger	Sonic, LL

DST's:

INITIAL COMPLETION:

Perf Blinebry 5443-47', 5473-77', 5511-15' w/4-.61" JHPF. Brk dwn w/1000 gals 15% NEA. Frac trt w/15,000 gal gel L.O. & 18,000# 20/40 sd

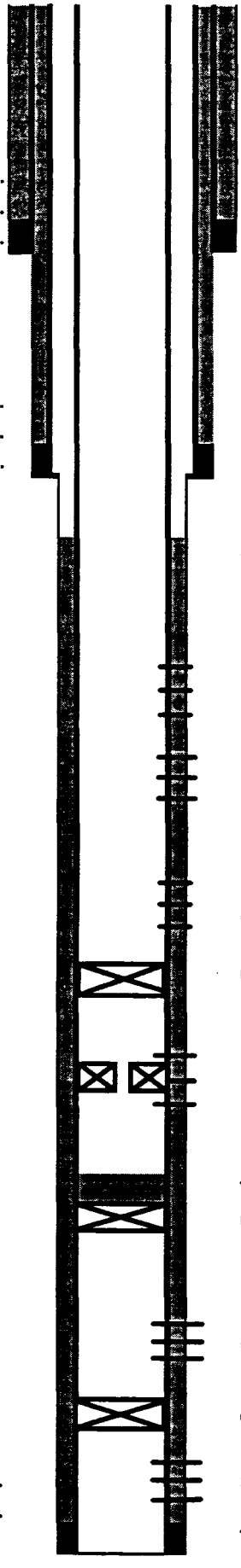
INITIAL COMPLETION DATE: 1/24/63

TREATMENTS AND WORKOVERS

7-71 Perf 5097-99', 5196-98', 5282-84', and 5357-59' w/4-1/2" JHPF. Acidized each set w/1000 gal 15% NEA. Frac trt each w/1000 gal gel pad & 6000 gal gel w/2# 20-40 sd in 4 equal stages.

12-77 Install ppg equip

WELLBORE SCHEMATIC



South Justis Unit F #18

(Chevron/ARCO L. McBuffington #4)
660' FSL & 1980' FWL (N)
Sec 13, T-25S, R-37E, Lea Co., NM
KB-3203'
Spudded 09/08/57
Completed 11/04/57

17-1/2" Hole.
13 3/8" casing @ 410'.
Set w/500 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3449'.
Set w/2200 sxs cmt. Circ.

TOC @ 3610' TS

Sqzd Blinebry Perfs 5134' to 5547'.

Blinebry Perfs 5458' to 5549'.

Sqzd Drinkard Perfs 5900' to 5957'.

CIBP @ 6660'.

Baker RBP @ 6738'
Fusselman Perfs 6718' to 6756'.

TOC @ 7165'
CIBP @ 7175'.

McKee Perfs 7768' to 7871'.

CIBP @ 8200'

Ellenburger Perfs @ 8220' to 8245'

TD @ 8264'.

8-3/4" hole.
7" csg @ 8230' w/1250 sxs cmt.

SOUTH JUSTIS UNIT "F" #18

LOCATION: 660' FSL & 1980' FWL (N), SEC. 13, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: CHEVRON/ARCO OIL AND GAS COMPANY

FORMER WELL NAME: LEARCY McBUFFINGTON #4

BLM TRACT NUMBER: 47 **API NUMBER:** 3002511565

SPUD DATE: 9/8/57

KB: 3203' GL: 3191' TD: 8264' PBTD:

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"	48#	J-55	410'	500 sxs cmt
9-5/8"	36#	J-55	3449'	2200 sxs cmt, circ
7"	23#	J-55/N-80	8230'	1250 sx cmt, (TOC @ 3610' by TS)

LOGS:

Date	Company	Log Name
10/28/57	Schlumberger	GR-N, LL, ML

DST's:

1	5910-6010'	Drinkard	Thru 4-1/2" DP with 5/8" ck @ 5892' and 1" surface ck - Gas to surf in 20 min, TSTM. Rec'd 100' drlg mud & 350' of oil & gas cut mud, no wtr - HP 2500#, FP 115-170# - 30 min BHP 2305#.
2	6690-6791'	Devonian	Gas to surf in 7 min, 24 hr rate 1,062,600 cubic feet. Mud to surf in 15 mins, Oil in 20 min, Flwd to pits 10 min, turned to tanks and flwd 269 BBO, no water - Rec'd 60' oil, reversed out - HP 3350#, FP 1060-2010# - 30 min BHP 2680#
3	6785-6901'	Devonian	Gas to surf in 4 min, Flwd 138 BO, no wtr - Rec'd 45' oil, no wtr - HP 3440#, FP 1150-2110#, 30 min BHP 2720#
4	6905-6973'	Siluro-Dev	Gas to surf in 24 mins, 2900 cubic feet decreasing & died in 1-1/2 hrs. No fluid to surf, Rec'd 100' oil and gas cut mud and 650' clean oil, no wtr - HP 3490#, FP 150-340#, 30 min BHP 2070#

SOUTH JUSTIS UNIT "F" #18

5	7170-7270'	Silurian	Weak blow of air, dead in 1 hr, Rec'd 280' drlg mud, 20' salt wtr, HP 3545#, FP 105-230# - 30 min BHP 1590#
6	7705-7796'	McKee	Very wk blow of air for 45 min and died. Rec'd 120' slightly gas cut drlg mud, HP 4130#, FP 68-101#, 15 min BHP 133#.
7	7812-7922'	McKee	Very wk blow of air for 45 min and died. Rec'd 210' drlg mud, no show of oil, gas, or wtr, HP 4275#, FP 0-155#, 30 min BHP 3240#

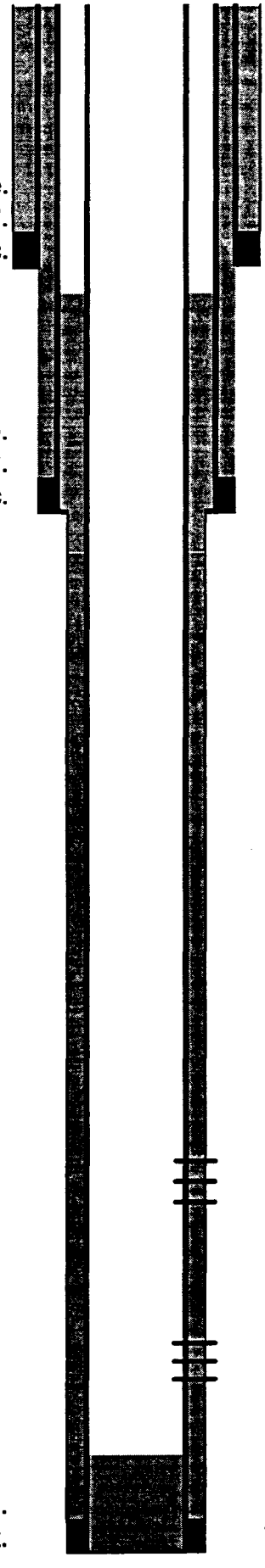
INITIAL COMPLETION: IP Ellenburger (8220-45'), P 396 BOPD

INITIAL COMPLETION DATE: 11/4/57

TREATMENTS AND WORKOVERS

6-14-58	Blinebry perf @ 5134-5547' 12,750 gals 15% NEA. Flush w/70 BO. Frac w/20,000 gals lease oil w/1/40# Adomite and 1# SPG.
10-30-59	Perf'd Tubb/Drinkard @ 5900-57', A/3500 gals 15% NEA. Sqzd Blinebry 5134-5547' w/500 sxs
5-23-60	8220-45' (Ellenburger perfs) 500 gals mud acid flushed w/60 BO
8-1-60	Set CIBP @ 8200', A/5900-57', w/4000 gals 15% NEA, 7500 gal retarded acid. Sqzd w/96 sxs. Re-perfed
6-1-65	Perf'd McKee @ 7768-71'. Treated w/435 bbls wtr w/90# caustic & 180# Aquaness 812. Sqzd 5900-57' w/750 sx.
7-14-65	Perf'd Blinebry @ 5458-5549', Frac w/750 gals 15% NEA, 22,300 gals gelled lease oil w/.05# - 1.5# SPG
11-13-71	Perf'd Fusselman @ 6718-56'. Acidized w/1000 gals 15% NEA. Set CIBP @ 7175' w/10' cmt
8-26-83	Set CIBP @ 6660', acidize 5458-5549' w/3000 gals 15% NEFE.
5-92	Active Blinebry well.

WELLBORE SCHEMATIC



Learcy McBuffington #8

Chevron
330' FSL & 1980' FWL (N)
Sec 13, T-25S, R-37E, Lea Co., NM
KB-3091'
Spudded 05/24/58
Completed 11/11/58

TOC @ 1810' TS

17-1/2" Hole.
13 3/8" casing @ 418'.
Set w/400 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 2525'.
Set w/450 sxs cmt. Circ.

Sqzd Fusselman Perfs 6754' to 6800'.

Montoya Perfs 6886' to 6920'.

PBD @ 6933'.

8-3/4" hole.
7" csg @ 7052' w/775 sxs cmt.

TD @ 7052'.

LEARCY McBUFFINGTON #8

LOCATION: 330' FSL & 1980' FWL (N), SEC. 13, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: CHEVRON

BLM TRACT NUMBER: 47 **API NUMBER:** 3002511569

SPUD DATE: 5/24/58

KB: 3091' GL: 3901' TD: 7052' PBTD: 6933'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			418'	400 sxs cmt
9-5/8"	32-36#	H-40/J-55	3450	2525 sxs cmt
7"			7052'	775 sxs cmt, (TOC @ 1810' - TS)

LOGS:

Date	Company	Log Name
6/21/58	Schlumberger	GRN, ML, IE

DST's:

1	6570-6670'	Open 1', rec. 50' GCM, FP 2225, SI 30" - 2600'

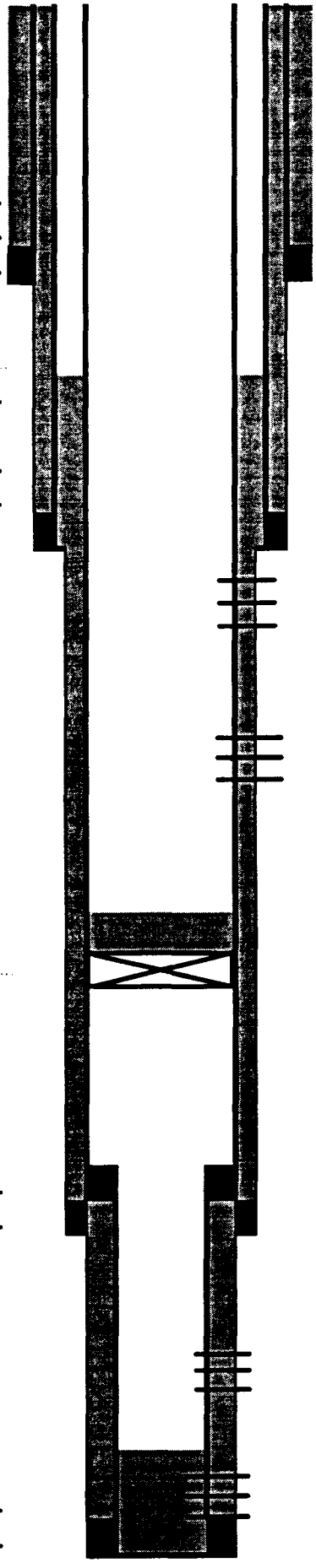
INITIAL COMPLETION: IP Fusselman (6754-6800'), F 178 BOPD, 494 GOR, FTP 250
IP Montoya (6886-6920'), F 135 BOPD, GOR 400, FTP 400

INITIAL COMPLETION DATE: 11/11/58

TREATMENTS AND WORKOVERS

2-66	Acidize Montoya w/500 gals 15% NEA. Acdz Fusselman w/250 gals 15% NEA
3-68	Acidize Fusselman w/1000 gals 28% NEA
10-79	Set BP @ 6827', pump 3 sx sd & 40 sx cmt. DO cmt to 6800', circ sand off RBP, acidize perfs, set cmt. Ret @ 6656', sqz Fusselman perfs w/150 sx Class "H" w/Halad-9. Drld cmt & ret to 6800'. Set BP, return to prod as Montoya single.

WELLBORE SCHEMATIC



South Justis Unit G #18

(Chevron /ARCO L. McBuffington #3)
660' FSL & 1980' FEL (O)
Sec 13, T-25S, R-37E, Lea Co., NM
KB-3084'
Spudded 06/12/57
Completed 09/02/57

17-1/4" Hole.
13 3/8" casing @ 414'.
Set w/450 sxs cmt. Circ.

TOC @ 3848' (Calculated).

12-1/4" Hole.
9-5/8" casing @ 4243'.
Set w/1925 sxs cmt. Circ.

Sqzd Glorieta Perfs 4732' to 4870'.

Tubb/Drinkard Perfs 5774' tp 5969'.

TOC @ 6025'.
CIBP @ 6040'.

8-3/4" Hole.
7" Casing @ 7898 w/665 sxs cmt.

Top of 5" Liner 7821'.

Perfs 7922' to 7924'.

PBD @ 7935'.
Sqzd Ellenburger Perfs 8100' to 8182'.
TD @ 8183'.

6" hole.
5" csg @ 8183' w/30 sxs cmt.

SOUTH JUSTIS UNIT "G" #18

LOCATION: 660' FSL & 1980' FEL (O), SEC. 13, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: CHEVRON/ARCO

FORMER WELL NAME: L. McBUFFINGTON #3

BLM TRACT NUMBER: 47 **API NUMBER:** 3002511564

SPUD DATE: 6/12/57

KB: 3084' GL: 3083' TD: 8183' PBTD: 6025'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"	48#		414'	450 sxs cmt, circ
9-5/8"	36#	S-80	4243'	1925 sxs cmt
7"	23#		7185'	475 sxs cmt, (TOC @ 6025')
5"	18#	N-80	8183'	30 sxs cmt

LOGS:

Date	Company	Log Name
9/5/57	Schlumberger	GRN, IE, ML

DST's:

1	McKee	7370-7463'	Open 3' 45", F 67 BO, 7.5 BSW 3 hr, FP 635-980, SI 30"-2320
2	Ellenburger	7898-7960'	Open 3' 13", F 186 BO in 3 hrs, FP 565-2805, SI 30" -3270

INITIAL COMPLETION: IP Ellenburger (8100-8182'), P 455 BOPD, 0 BWPD

INITIAL COMPLETION DATE: 9/2/57

TREATMENTS AND WORKOVERS

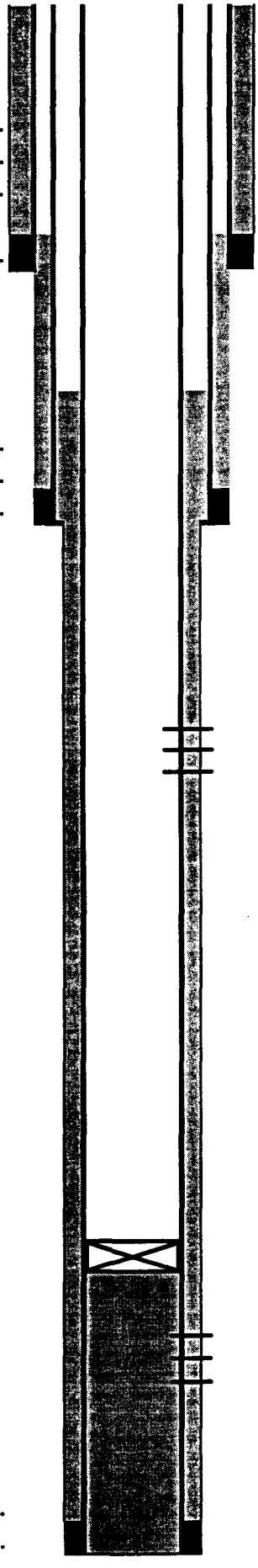
9-2-57 Perf 5" liner 8100-8181'

4-28-58 Perf 7" csg 4732-66', 4788-4806', 4846-56', 4862-70', Spot 500 gals mud acid, Set RBP @ 4914', Broke form w/24 BO, Frac w/20,000 gals lease oil w/1/40# Adomite & 1# sand/gal. press 3750-3600#. Test Glorieta zone, 244 BO/0 BW, 36/MCFPD (Dual Complete)

SOUTH JUSTIS UNIT "G" #18

9-1-65	Squeezed lower/Ellenburger perfs 8100-8182' w/25 sx. Perf Upper Ellenburger 7922-26', 7952-56', 8018-22' w/4-1/2 JHPF. Acidize 250 gals 15% acid.
11-2-67	Set Baker thru tbg BP @ 8004', dumped cement to 7943'
1-2-69	Squeezed 4732-66', 4788-4806', 4846-56', 4862-70' w/150 sx Class A. Drill out cmt, squeezed Ellenburger perfs w/50 sx Class "H". Drill cmt to 7932'. Perf 5" liner 7922-24' w/4 JHPF. Acidize w/500 gals 15% NEA Perf 4752-54' w/4 JHPF Perf 4800-02' w/4 JHPF, Pumped 500 gals 15% NEA, Pumped 1000 gals 15% NEA 3000 gals 28% NEA & 3000 gals 3% NEA.
10-18-71	Set CIBP @ 6040' cap w/10' cmt. Squeeze Glorieta perfs 4752-4802' w/150 sx C/O to 6025'. Perf Tubb/Drinkard 5774-76', 5799-5801', 5822-24', 5846-48', 5938-40', 5967-69'. Acidize w/9000 gals 15% NEA
10-17-80	Run new tbg, pump & rods. Pmp 1000 gals 15% NEFE HCl down csg flush w/brine.
CORES:	5200-80', 5330-50', 5900-6000', 6745-6877', 7150-7200', 7313-7463', 7904-60'

WELLBORE SCHEMATIC



Learcy McBuffington #6

Chevron
330' FSL & 1980' FEL (O)
Sec 13, T-25S, R-37E, Lea Co., NM
KB-3086'
Spudded 01/17/58
Completed 04/07/58

17-1/2" Hole.
13-3/8" casing @ 432'.
Set w/400 sxs cmt. Circ.

TOC @ 880 by TS.

TOC @ 4300'.

12-1/4" Hole.
9-5/8" casing @ 3450'.
Set w/2570 sxs cmt.

Blinebry Perfs 5158' to 5598'.

Pkr @ 7200'
PBD @ 7190'.

McKee Perfs 7356' to 7484'.

8-3/4" hole.
7" csg @ 7600' w/1000 sxs cmt.

TD @ 7600'.

LEARCY McBUFFINGTON #6

LOCATION: 330' FSL & 1980' FEL (O), SEC. 13, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: CHEVRON

BLM TRACT NUMBER: 47 **API NUMBER:** 3002511567

SPUD DATE: 1/17/58

KB: 3086' GL: 3095' TD: 7600' PBTD: 7190'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			432'	400 sxs cmt
9-5/8"			3450'	2570 sxs cmt
7"			7600'	1000 sxs cmt

LOGS:

Date	Company	Log Name
2/23/58	Schlumberger	EL, ML

DST's:

INITIAL COMPLETION: IP Blinebry , F 672 BO, 2 BW, GOR 916, 20/64" ck, TP 1300, GR 39.4°

INITIAL COMPLETION DATE: 4/7/58

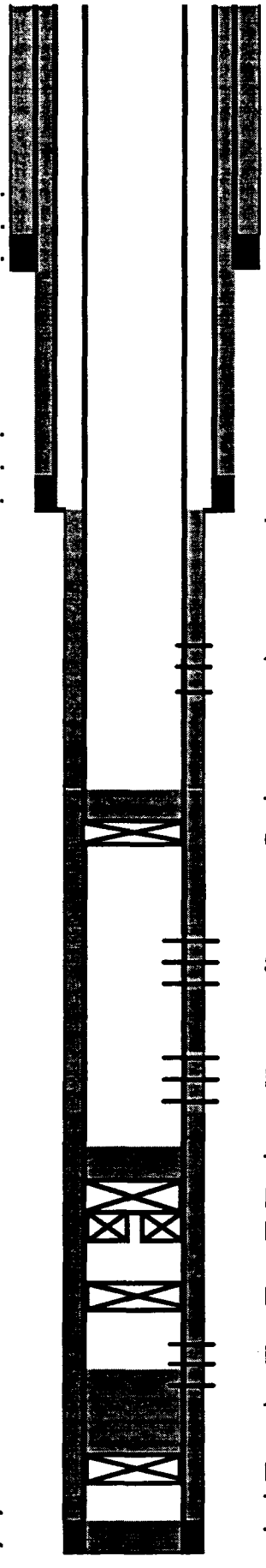
TREATMENTS AND WORKOVERS

3-7-58 Perf 7" csg 7356-7484' w/4-1/2" JHPF, p
Perf 5158-5598' w/Fl Gun. Frac w/56,000 gals lse oil w/1/40# Adomite and 1# SPG (5158-5578'). Fished w/140 bbls 15% oil, Pmp 7 ball w/10 BO & 150 gal mud acid. Frac Blinebry w/21,890 gal lse oil

1-26-72 Set plug in Baker Model "D" pkr @ 7200'. Dump 10' cmt on top
Return Blinebry zone to prod

5-16-72 Pmp 1000 gals 15% MC acid over Blinebry perfs, flushed w/5 bbl trtd wtr

WELLBORE SCHEMATIC



South Justis Unit H #18

(Chevron/ARCO L. McBuffington #11)
660' FSL & 990' FEL (P)
Sec 13, T-25S, R-37E, Lea Co., NM
KB-3087'
Spudded 03/15/59
Completed 05/06/59

17-1/2" Hole.
13 3/8" casing @ 416'.
Set w/450 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3500'.
Set w/1825 sxs cmt. Circ.

TOC @ 3770' TS

Tubb/Drinkard Perfs 5716' to 5884'.

TOC @ 7222'
CIBP @ 7240'.

Sqzd McKee Perfs 7300' to 7416'.

Ellenburger Perfs @ 7798' to 7876'.

TOC @ 7881'.
BP @ 7886'.
Packer @ 7890'

BP @ 7966'.

Ellenburger Perfs 7973' to 8174'.

TOC @ 8046'.

Mod. 'D' Pkr. Drove to 8180'
TOC @ 8196'.
TD @ 8201'.

8-3/4" hole.
7" csg @ 8201' w/670 sxs cmt.

SOUTH JUSTIS UNIT "H" #18

LOCATION: 660' FSL & 990' FEL (P), SEC. 13, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: CHEVRON/ARCO OIL AND GAS COMPANY

FORMER WELL NAME: L. McBUFFINGTON #11

BLM TRACT NUMBER: 47 **API NUMBER:** 3002511572

SPUD DATE: 3/15/59

KB: 3087' GL: TD: 8201' PBTD: 7022'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			416'	450 sxs cmt, circ
9-5/8"	32-36#	J-55-H-40	3500'	1825 sxs cmt, circ
7"	23#	N-80/J-55	8201'	670 sxs cmt, (TOC @ 3770' - TS)

LOGS:

Date	Company	Log Name
5/4/59	Schlumberger	GR-N, LL, MLL

DST's:

INITIAL COMPLETION: (5-59) Perf Ellenburger 7996-8174' w/4 JHPF. Perf McKee 7300-7416' w/4 JHPF. Spot 500 gal MA of perfs 8144-74' & squeeze into formation. Swbd both zones. Complete as a dual.

INITIAL COMPLETION DATE: 5/6/59

TREATMENTS AND WORKOVERS

9-65 Drld & drove Model "D" pkr to 8180'. Set cmt ret @ 8055'. Sqzd perfs 8080-98', 8144-55', 8161-74' w/75 sx cmt. D/O to 8046', perf 7937-41', 7973-77' w/4 JHPF. Straddle new perfs. Acidize w/500 gals 15% NEA. Swb dry. Acidize w/1000 gals 15% NEA. Lwr BP to 8020'. Re-perf 7996-8002' w/2 JHPF w/DP crack jet & magloc tbg gun. Acidize perfs 7996-8002' w/1000 gals 15% NEA. Set Model "D" @ 7890'. Dual completion.

SOUTH JUSTIS UNIT "H" #18

9-67 Acidize perfs 7937'-8002' w/3000 gals 15% HCL. Breakdown w/2100# Max pressure 3000#

3-68 Ran GR-CCL from 8046' to 7700'. Set 7" thru tbg BP @ 7966'. Dump cmt on plug. Tag cmt @ 7954'. Return to production as dual.

12-71 Set CIBP @ 7886'. Leave Model "D" pkr below. Dump 1 sx cmt on plug. PBTD 7881'. Squeeze perfs 7300-7416' w/200 sx cmt. C/O to 7881'. Spot 500 gals 15% acid on btm. Perf Upper Ellenburger 7798-7876'. Put away acid. Swb test. CI uneconomical to prod.

4-75 Set CIBP @ 7240'. Cap w/cmt. PBTD 7222'. Perf Tubb/Drinkard 5716-5884' w/4 JHPF. Acidize w/2350 gals 15% NEA. Frac down tbg w/1500 gals NEA, 30,000 gals 9.2# gel, 60,000# 20-40 sd. Flush w/48 bbls gel brine. ISIP 1000#. Ret to prod as Drinkard single. Flwd 35 BO and 18 BW.

5-75 Install pumping equipment, would not flow.

WELLBORE SCHEMATIC

Learcy McBuffington #14

Chevron/ARCO
330' FSL & 990' FEL (P)
Sec. 13, T-25S, R-37E, Lea Co., NM
KB 3088'
Spudded 02/15/63
Completed 05/12/63

TOC @ 53'.

12-1/4" hole.
9-5/8" casing @ 913'.
Set w/250 sxs cmt.

TOC @ 2765' by TS.

Blinebry perfs @ 5072' to 5404'.

PBD @ 5532'
CIBP @ 5538'.

Tubb/Drinkard perfs @ 5744' to 5907'.

8-3/4" hole.
7" csg @ 5955' w/490 sxs cmt.

TD @ 5955'.

LEARCY McBUFFINGTON #14

LOCATION: 330' FSL & 990' FEL (P), SEC. 13, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: CHEVRON/ARCO

BLM TRACT NUMBER: 47 **API NUMBER:** 3002520208

SPUD DATE: 2/15/63

KB: 3088' GL: 3075' TD: 5955' PBTD: 5532'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"			913'	250 sxs cmt
7"			5955'	490 sxs cmt

LOGS:

Date	Company	Log Name
3/16/63	Schlumberger	Sonic, MLL, LL

DST's:

INITIAL COMPLETION: (4-63) Perf 5348-52', 5375-79', 5400-04' w/4 JHPF, Spot 1500 gal 15% NEA w/9.5# CaCl, Break down at 5000#. Frac w/15,000 gals gel LO w/1/10# SFPG & 1-1/2# (20-40) SPG. Drop 18-1-1/4" NCRB's.
Perf 5744-5907' w/2-1/2" JHPF. Frac new perfs w/1000 gals 15% NEA, 11,500 gal gel LO w/1-10# SFPG, 1-1/2# (20-40) SPG, Max press 4000#.

INITIAL COMPLETION DATE: 5/12/63

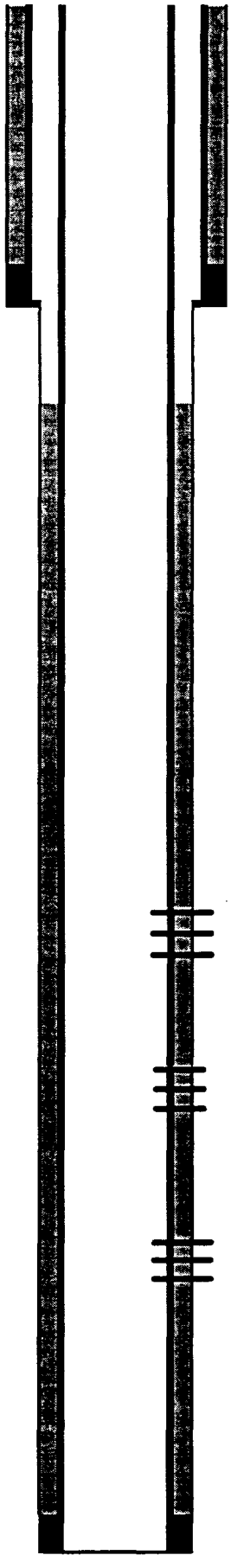
TREATMENTS AND WORKOVERS

1-67 Install ppg equip (Blinebry)

3-69 Pulled rods & tbg. Set Johnson CIBP @ 5538'. Dumped 2 sx cmt on top. PBD 5532'. P&A Tubb/Drinkard.

4-75 Perf 5072-74', 5094-96', 5118-20', 5147-49', 5191-93', 5242-44', 5298-5300' w/4-1/2" JHPF. Trt new perfs w/2100 gals of 15% NEA & flushed w/45 BW. Frac w/2000 gals of 15% NEA, 52,000 gals of gel brine w/70,000# sd. Flushed w/45 bbls gel brine. ISIP 400#. Found 1k 7" csg between 3311-42'. Squeezed w/300 sx Class "C" cmt. No cmt. Test csg to 1000#. Ret to production as Blinebry single. 5072-5404'.

WELLBORE SCHEMATIC



South Justis Unit D #15

(ARCO Langlie 'B' Federal #1)
990' FNL & 330' FEL (A)
Sec. 14, T-25S, R-37E, Lea Co., NM
KB 3118'
Spudded 10/02/61
Completed 01/08/62

13-3/4" hole.
9-5/8" casing @ 911'.
Set w/580 sxs cmt. Circ.

TOC @ 1475' by TS.

Blinebry perfs @ 5080' to 5168'.

Sqzd Blinebry Perfs @ 5485' to 5568'

Sqzd Tubb/Drinkard Perfs @ 5796' to 5993'.

8-3/4" hole.
7" csg @ 6045' w/650 sxs cmt.

TD @ 6050'.

SOUTH JUSTIS UNIT "D" #15

LOCATION: 990' FNL & 330' FEL (A), SEC. 14, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: LANGLIE "B" FEDERAL #1

BLM TRACT NUMBER: 4 **API NUMBER:** 3002511586

SPUD DATE: 10/2/61

KB: 3118' GL: TD: 6050' PBTD:

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"			911'	580 sxs cmt, circ
7"			6045'	650 sxs cmt, (TOC @ 1475' - TS)

LOGS:

Date	Company	Log Name
10/30/61	Schlumberger	Sonic, LL, MLL

DST's:

1	Paddock	4943-81'	Rec 150' SGCM,, 100' GWCM
2	Paddock	4943-5018'	Rec 240' GWCM, slight show oil

INITIAL COMPLETION: OPT Tubb/Drinkard (5996-5993'), Flowed 24 hrs, 7 BO, 3 BW, GOR 841

INITIAL COMPLETION DATE: 1/8/62

TREATMENTS AND WORKOVERS

11-61 Perf Tubb/Drinkard 5972-93' (4 SPF), acidized w/250 SOF/5k/5k.
Perf Tubb/Drinkard 5796-5829' (4 spf), acidized w/500 SOF/20k/24k#.
Perf Blinebry 5529-68' (4 spf), acidized w/250 SOF/13k/16k#.
Perf Blinebry 5485-5502' (4 spf), acidized w/250 SOF/7k/8k#.
Squeeze 5485-5502' and 5529-58' / 500 sx. OPT T/D 5796-5993', flwd 24 hrs 7 BO, 3 BW, GOR 841.

SOUTH JUSTIS UNIT "D" #15

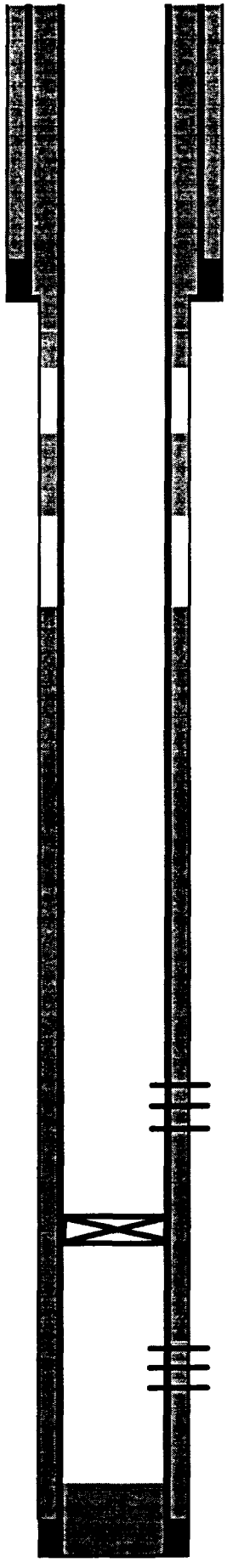
3-63 Squeeze Tubb/Drinkard w/100 sx. Perf Blinebry 5220', squeeze/25 sx. Perf 5077' squeeze w/35 sx. Perf 5130-46', 53-68' (4 spf). Acidized w/1000 SOF/10k/12k. Perf 5080-90', 96', 5112'. Acidized w/1000 SOF/10k/12k#. OPT Flwd 52 BO in 2-1/2 hrs, 47 MCFD, 0 BW, FTP 600# on 18/64" choke, Gravity 38°

1-67 Pumped 300# Ammonia Bicarbonate

CORE INFORMATION:

Core #1: 4949-81' (Paddock)
Core #2: 4981-86' (Paddock)
Core #3: 4986-5004' (Paddock)
Core #4: 5005-5018' (Paddock)

WELLBORE SCHEMATIC



South Justis Unit C #15

(ARCO Langlie 'B' Federal #2)
890' FNL & 1980' FEL (B)
Sec. 14, T-25S, R-37E, Lea Co., NM
KB 3134'
Spudded 04/15/63
Completed 05/09/63

12-1/4" hole.
8-5/8" casing @ 946'.
Set w/520 sxs cmt. Circ.

Perf 1000' - Cmt Circ.

Perf 2180' - TOC 1565'.

Original TOC @ 2250' by TS.

Blinebry perfs @ 5131' to 5334'.

CIBP @ 5349'.

Blinebry Perfs @ 5362' to 5435'.

7-7/8" hole.
4-1/2" csg @ 5674' w/674 sxs cmt.

PBD @ 5640'.
TD @ 5674'.

SOUTH JUSTIS UNIT "C" #15

LOCATION: 890' FNL & 1980' FEL (B), SEC. 14, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: LANGLIE "B" FEDERAL #2

BLM TRACT NUMBER: 4 **API NUMBER:** 3002520308

SPUD DATE: 4/15/63

KB: 3134' GL: TD: 5674' PBTD: 5640'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"	24#	J-55	946'	520 sxs cmt, circ
4-1/2"	9.5#-11.6#	J-55	5674'	674 sxs cmt, (TOC @ 2250' TS)

LOGS:

Date	Company	Log Name
4-29-63	Schlumberger	Sonic, LL

DST's:

INITIAL COMPLETION: OPT: Flwd 138 BO, 11 BW/9 hrs, GOR 990, FTP 375# 21/64" choke, Gravity 37°

INITIAL COMPLETION DATE: 5/9/63

TREATMENTS AND WORKOVERS

5-63 Perf Blinebry 5202-29' (4 spf). Acidized w/1000 SOF/10/12. Perf Blinebry 5131-36', 5143-49', 5153-60', 5179-83' (4 spf) Acidized w/1000, SOF/10/12. OPT - Flwd 138 BO, 11 BW/9 hrs, GOR 990.

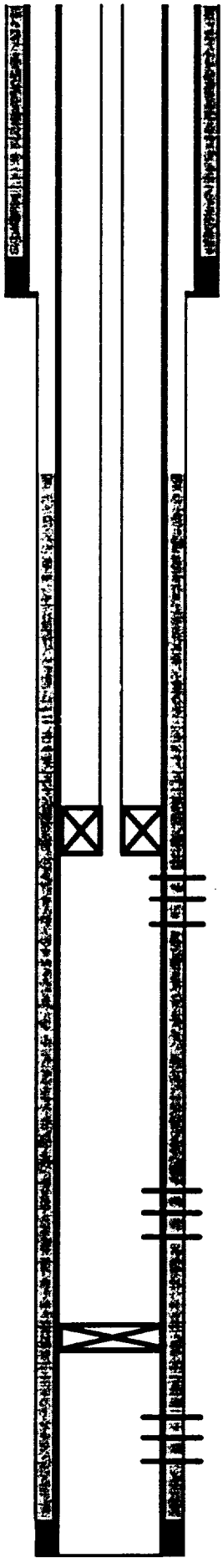
6-69 Checked bottom 559', Perf Blinebry 5246', 69', 87', 90', 5301', 08', 21', 34', 62', 72', 5403', 35. Acidized w/1200 SWF/5135-5435'/43/43. Pumped 16 BO, 170 BW

9-70 Repaired 8 5/8" csg @ 17' (3' below GL) w/csg patch

8-84 Perf @ 2180' cmt w/600 sx - TOC @ 1565', Perf @ 1000'. Circ cmt to surf. Acidized 5135-5435, w/2500. Pmpd 8 BO & 43 BW.

6-69 Set CIBP @ 5349'

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
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.

2-3/8" PVC tubing @ 5000'
Otis Interlock Packer @ 5000'

Blinebry Perfs @ 5165' to 5621'.

Tubb/Drinkard Perfs @ 5958' to 6079'.

CIBP @ 6088'.

Drinkard Perfs @ 6098' to 6171'.

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

TD @ 6250'.

SOUTH JUSTIS UNIT "B" #150

WELL NAME: 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' PBTD:

CASING RECORD:

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

LOGS:

Date	Company	Log Name
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

SOUTH JUSTIS UNIT "B" #150

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.

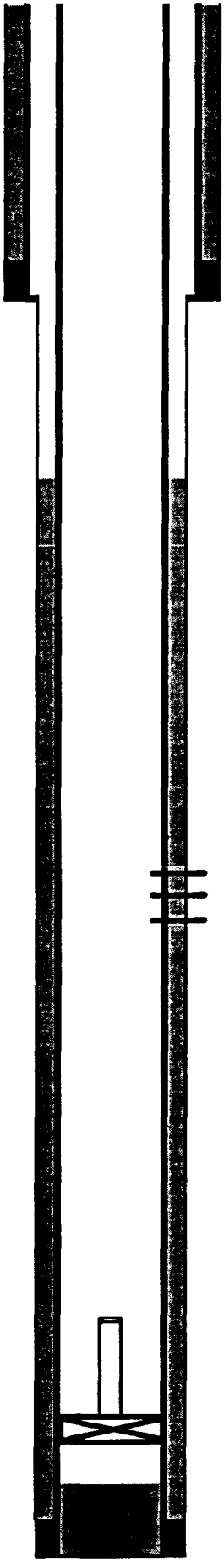
Perf Blinebry 5377-5618', A/1500, SOF/20/20. OPT F 67 BO/8 hrs. Perf Drinkard 5958-62', 6012-16', 18-20', 24-28', 52-58', 72-82', 98-6109', 14-16', 35-40', 44-60', 69-74'. Blinebry 5377-94', 5468-70', 5530-32', 90-92', 5600-04', 08-21'. Set Model "D" pkr @ 5850'.

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

WELLBORE SCHEMATIC



South Justis Unit B #16

(AHC/ARCO W. F. Stuart #1)
1650' FNL & 2310' FWL (F)
Sec. 14, T-25S, R-37E, Lea Co., NM
KB 3126'
Spudded 10/25/65
Completed 11/18/65

11" hole.
8-5/8" casing @ 997'.
Set w/500 sxs cmt. Circ.

TOC @ 2335' by TS.

Blinebry Perfs @ 5171' to 5560'.

Junk in Hole 5589' (04/16/81)

7-7/8" hole.
5-1/2" csg @ 5685' w/550 sxs cmt.

PBTD @ 5660'.
TD @ 5685'.

SOUTH JUSTIS UNIT "B" #16

LOCATION: 1650' FNL & 2310' FWL (F), SEC. 14, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: W. F. STUART #1 (AHC)

BLM TRACT NUMBER: 53 **API NUMBER:** 3002521184

SPUD DATE: 10/25/65

KB: 3126' GL: TD: 5685' PBTD: 5660'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"			997'	500 sxs cmt, circ
5-1/2"			5685'	550 sxs cmt, (TOC @ 2335' - TS)

LOGS:

Date	Company	Log Name
11-13-65	Schlumberger	Sonic

DST's:

INITIAL COMPLETION: Blinebry perfs from 5171-5660'
Flowed at rate of 397 BOPD, Oil Gravity 36.8° API,
GOR = 471 SCF/STB

INITIAL COMPLETION DATE: 11/18/65

TREATMENTS AND WORKOVERS

3-13-69 Status changed from flowing to pumping oil well

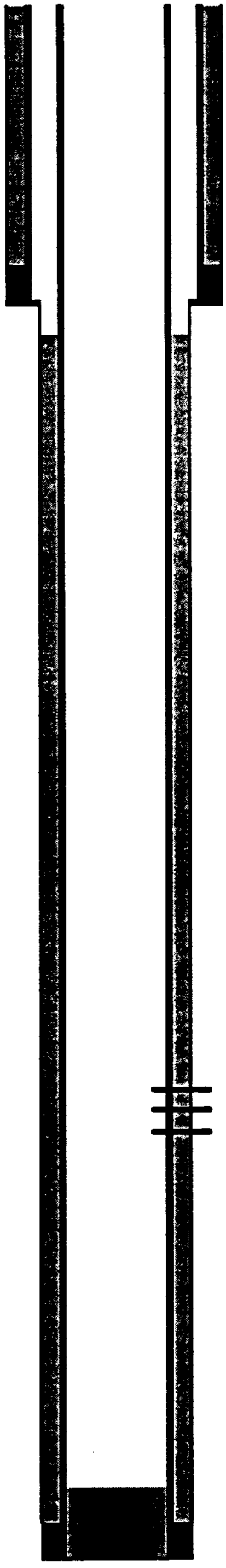
3-1-70 Frac'd perfs from 5171-5660' with 50,000 gal 50-50 gelled brine and fresh wtr, 75,000# 20-40 sand, and 30,000# salt

1-5-78 Acidized csg perfs w/1000 gals 15% NE acid, conducted chemical squeeze of perfs w/110 gal Techni-Hib 793

SOUTH JUSTIS UNIT "B" #16

7-5-79	Chemical squeeze csg perfs w/110 gal TH - 793
4-25-80	Chemical squeeze csg perfs w/165 gal TH - 793 and 5 gal TC - 120
4-16-81	Acidized csg perfs from 5383-5567' w/1500 gal 15% acid and 6500# salt Acidized csg perfs from 5171'-5338' w/1500 gal 15% acid and 300# salt. NOTE: Could not get to TD, top of fish reported at 5589'.
6-21-82	Chemical squeeze csg perfs with 110 gal TH - 793 and 5 gal TC - 120

WELLBORE SCHEMATIC



South Justis Unit C #16

(ARCO Langlie 'A' Federal #2)
2310' FNL & 1650' FEL (G)
Sec. 14, T-25S, R-37E, Lea Co., NM
KB 3122'
Spudded 02/16/63
Completed 03/16/63

TOC @ 1200' by TS.

12-1/4" hole.
8-5/8" casing @ 930'.
Set w/520 sxs cmt. Circ.

Blinebry perfs @ 5128' to 5466'.

7-7/8" hole.
4-1/2" csg @ 5650' w/630 sxs cmt.

PBD @ 5615'.
TD @ 5650'.

SOUTH JUSTIS UNIT "C" #16

LOCATION: 2310' FNL & 1650' FEL (G), SEC. 14, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: LANGLIE "A" FEDERAL #2

BLM TRACT NUMBER: 7 **API NUMBER:** 3002520032

SPUD DATE: 2/16/63

KB: 3122' GL: TD: 5650' PBTD: 5615'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"	24#	J-55	930'	520 sxs cmt, circ
4-1/2"	9.5/11.6#	J-55	5650'	630 sxs cmt, (TOC @ 1200' TS)

LOGS:

Date	Company	Log Name
3-5-63	Schlumberger	Sonic, LL

DST's:

INITIAL COMPLETION: OPT - Flwd 104 BO & 18 BLW/12 hrs., FTP 500#, 15/64" choke

INITIAL COMPLETION DATE: 3/16/63

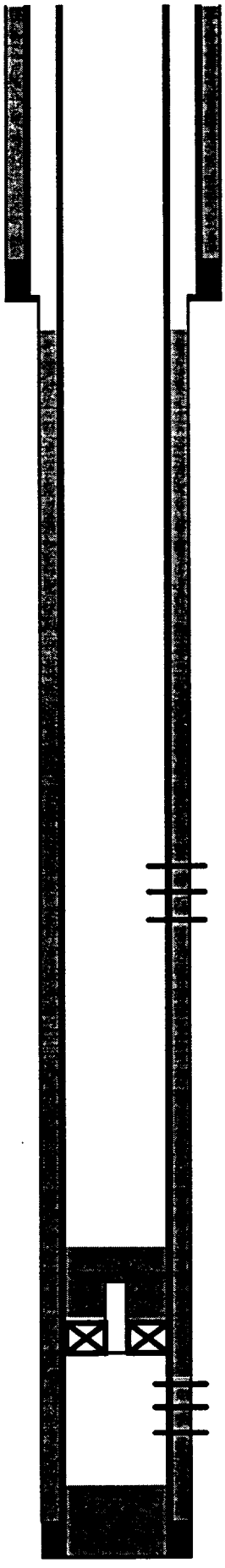
TREATMENTS AND WORKOVERS

3-63 Perf Blinebry 5453-66' (4 spf), A/250 SOF/4.7/4.7
Perf 5364-77', 94-5413' (4 spf), A/1000 SOF/15/17
OPT Flwd 104 BO & 18 BLW/12 hrs., FTP 500#, 15/64" choke

4-69 Perf Blinebry 5128', 38', 46', 56', 76', 82', 93', 5228', 39', 86', 5304', 10', 25', 37', 53'. A/1000 SWF/50/50. Flwd 130 BO, 1288 GOR, 0 BW, FTP 625# on 14/64" choke

9-78 Put on pump

WELLBORE SCHEMATIC



South Justis Unit D #16

(ARCO Langlie 'A' Federal #1)
2310' FNL & 330' FEL (H)
Sec. 14, T-25S, R-37E, Lea Co., NM
KB 3113'
Spudded 10/23/59
Completed 12/14/59

TOC @ 1525' by TS.

12-1/4" hole.
9-5/8" casing @ 895'.
Set w/390 sxs cmt. Circ.

Blinebry perfs @ 5098' to 5566'.

PBD @ 5646'.

Pkr @ 5765' w/plug

Tubb/Drinkard Perfs @ 5796' to 5957'.

PBD @ 6023'.
TD @ 6040'.

8-3/4" hole.
7" csg @ 6038' w/575 sxs cmt.

SOUTH JUSTIS UNIT "D" #16

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

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: LANGLIE "A" FEDERAL #1

BLM TRACT NUMBER: 7 **API NUMBER:** 3002511585

SPUD DATE: 10/23/59

KB: 3113' GL: TD: 6040' PBTD: 6023'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"	32#	H-40	895'	390 sxs cmt, circ
7"			6038'	575 sxs cmt, (TOC @ 1525')

LOGS:

Date	Company	Log Name
11-17-59	Schlumberger	GR-N, LL, MLL

DST's:

1	Blinebry	5225-5300'	Open 1-1/2 hrs, SI 30 min Rec 2880' gas, 90' SO&GCDM, 60' HO&GCDM IFP 83, SIP 313, FFP 104
2	Blinebry	5300-5400'	Open 2 hrs, GTS 32 min, Rec 450' HC&GCM, IP 190, IFP 228 30" SIP 1830
3	Blinebry	5400-5500'	Packer failure
4	Blinebry	5390-5500'	Open 1-1/2 hrs, SI 30", Rec 55' DM IP 135, FFP 135, SIP 314
5	Blinebry	5500-5580'	Open 1 hr, SI 45", Rec 720' DM IFP 62, FFP 377, SIP 2180
6	Tubb	5758-5850'	Open 1-1/2 hrs, GTS 8", IFP 136, FFP 230, SIP 1464, Rec 300' HC&GCDM, 540' mud entered

SOUTH JUSTIS UNIT "D" #16

7	Drinkard	5950-5990'	Open 1 hr, rec 90"GCDM, 20' wtr IFP 42, FFP 63
8	Drinkard	5990-6040'	Open 1 hr, GTS 45", rec 90' GC&HGC mud 360' gas, IFP 123, FFP 125, SIP 710

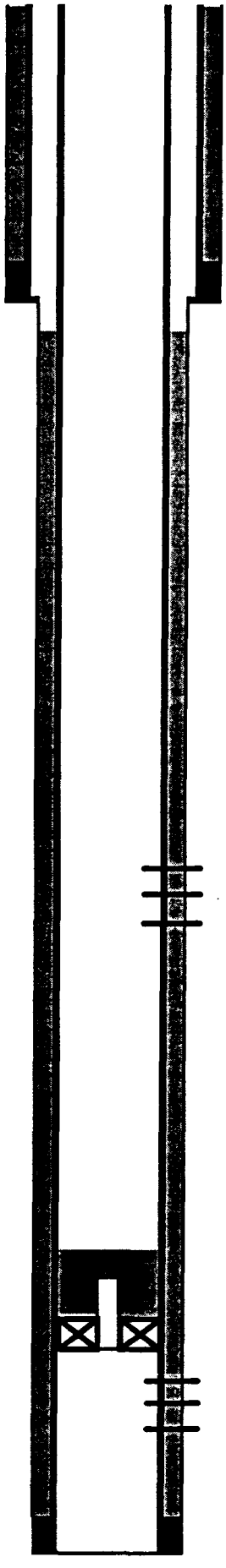
INITIAL COMPLETION: OPT - Tubb/169 BO/24 hrs, 3 BW, 20/64" choke, FTP 450#
Blinebry - 256 BO/24 hrs

INITIAL COMPLETION DATE: 12/14/59

TREATMENTS AND WORKOVERS

11-59	Perf Blinebry 5420-32' (4 spf). A/3500 SOF/10/10. Perf Tubb 5796-5810', 5816-20', 38-48' (4 spf). Model "D" pkr @ 5770' WL. A/500, A/7560 SOF/15/15. OPT - Tubb/69 BO/24 hrs, 3 BW FTP 450#, 20/64" choke, Blinebry 256 BO/24 hrs.
8-61	Milled out pkr. Perf Drinkard 5949-57', 26-45', 5895-5907', (4 spf) A/1000, SOF/22/25. Perf Tubb 5868-77 & Blinebry 5476-5498', 5339-45' (4 spf). A & SOF/5796-5848'/1500/30/36. A/5476-98'/ 8000. A/5339-45'. Set Model "D" pkr @ 5765' WL.
9-68	P&A Tubb/Drinkard w/plug in pkr & 17 sx cmt. Perf Blinebry 5259', 68', 80', 89', 5303', 12', 26', 5537', 47', 57', 63', 66. SWF/42/44.
2-78	Perf Blinebry 5098', 5111', 14', 19', 24', 31', 37', 48', 53', 60', 68', 74', 90', 96', 5203', 08', 23'. A/4000 50/50 Xylene/HCL 5259-5566'. A/5098-5223'/2000, SWF/40/60.

WELLBORE SCHEMATIC



South Justis Unit D #17

(ARCO Langlie Federal #1)
1650' FSL & 330' FEL (I)
Sec. 14, T-25S, R-37E, Lea Co., NM
KB 3108'
Spudded 08/02/59
Completed 08/31/59

12-1/4" hole.
9-5/8" casing @ 899'.
Set w/407 sxs cmt. Circ.

TOC @ 950' by TS.

Blinebry perfs @ 5093' to 5420'.

Pkr @ 5644' w/plug

Tubb/Drinkard Perfs @ 5788' to 5971'.

8-3/4" hole.
7" csg @ 6016' w/751 sxs cmt.

TD @ 6020'.

SOUTH JUSTIS UNIT "D" #17

LOCATION: 1650' FSL & 330' FEL (I), SEC. 14, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: LANGLIE FEDERAL #1

BLM TRACT NUMBER: 6 **API NUMBER:** 3002511583

SPUD DATE: 8/2/59

KB: 3108' GL: TD: 6020' PBTD:

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"	32#	H-40	899'	407 sxs cmt, circ
7"	23#-20#	J-55	6016'	751 sxs cmt, (TOC @ 950')

LOGS:

Date	Company	Log Name
8-26-59	Schlumberger	GR-N, LL, MLL

DST's:

1	Blinebry	5310-5400'	Open 1 hr, SI 30", rec 10' HOCDM & 170' SOCDM, IFP 100#, FFP 140#, SIP 210
2	Blinebry	5400-5500'	Open 3 hr, 45 min, GTS 6", oil 2-1/2 hrs. Flwd 1.3 BO/hr 1" ck, TP 0-50# SI 30", IFP 220#, FFP 880#, SIP 2160
3	Tubb	5790-5840'	Open 2 hr, SI 30", rec 730' gas & 30' SGCDM, IFP = FFP 80#, SIP 100#
4	Tubb	5840-5895'	Open 1-1/2 hrs, SI 30", no wtr, rec 1261' gas, 5' SO&GCDM & 50' GCDM IFP= FFP 80#, SIP 140#
5	Drinkard	5920-70'	Open 1-1/2 hrs, no GTS, rec 2500' gas, 30' GCM w/trace oil, IFP 60# FFP 30#, 30" SIP 120

SOUTH JUSTIS UNIT "D" #17

6	Drinkard	5970-90'	Open 2 hrs, GTS 1' 35", rec 30' HO&HGCM, 120' 0il & HGCM, IFP 45# FFP 100#, 30" SIP 250E
7	Drinkard	5970-6020'	Open 2 hrs, no GTS, SI 30", rec 720' gas, 180' HGCM, IFP 80#, FFP 140#, 30" SIP 550#

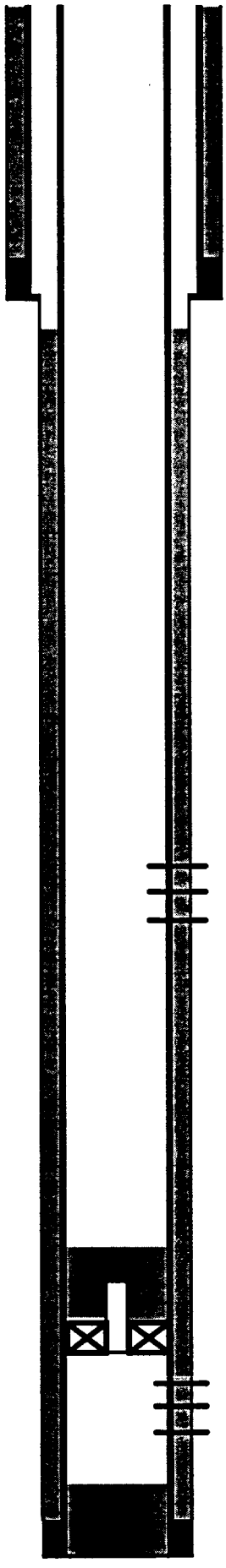
INITIAL COMPLETION: OPT Blinebry (5404-5420')- Flwd 115 BO/11 hrs, FTP 250, 1/4" choke, GOR 800, Gravity 38°

INITIAL COMPLETION DATE: 8/31/59

TREATMENTS AND WORKOVERS

8-59	Perf Blinebry 5404-20' (4 spf). A/500, A/3000, OPT Flwd 115 BO/11 hrs., FTP 250, 1/4" choke, GOR 800, Gravity 38°
11-60	Perf Tubb/Drinkard 5788-97', 5803-12', 38-44', 60', 67', 5914-22', 30-40', 52-60', 62-71' (2 spf). A/5914-71/500, SOF/6/6. A/5788-5867'/500, SOF 15/15. Pumped 22 BO, 18 BW/24 hrs. Blinebry A/2000. Pmpd 64 BO/24 hrs.
4-65	P&A'd Drinkard w/plug in Model "D" pkr & 2 sx cmt. SOF/20/24. OPT - Flwd 33 BO/5-1/2 hrs
1-78	Perf Blinebry 5093', 5104', 11', 16', 20', 37', 41', 48', 75', 81', 5200', 20', 43', 53'. A/5093-5253'/2000 SWF/60/90/5k# 100 mesh A/5404-20/2500, Pmpd 26 BO/24 hrs.

WELLBORE SCHEMATIC



South Justis Unit C #17

(ARCO Langlie Federal #2)
1650' FSL & 1650' FEL (J)
Sec. 14, T-25S, R-37E, Lea Co., NM
KB 3115'
Spudded 08/25/61
Completed 10/13/61

TOC @ 1075' by TS.

13-3/4" hole.
9-5/8" casing @ 921'.
Set w/580 sxs cmt. Circ.

Blinebry perfs @ 5141' to 5524'.

New PBD 5755'.

Pkr @ 5790' w/plug

Tubb/Drinkard Perfs @ 5810' to 5883'.

8-3/4" hole.
7" csg @ 6045' w/750 sxs cmt.

PBD @ 6009'.
TD @ 6050'.

SOUTH JUSTIS UNIT "C" #17

LOCATION: 1650' FSL & 1650' FEL (J), SEC. 14, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: LANGLIE FEDERAL #2

BLM TRACT NUMBER: 6 **API NUMBER:** 3002511584

SPUD DATE: 8/25/61

KB: 3115' GL: TD: 6050' PBTD: 5755'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"	32#	H-40	921'	580 sxs cmt, circ
7"	20-23#	J-55/N-80	6045'	750 sxs cmt, (TOC @ 1075'-TD)

LOGS:

Date	Company	Log Name
9-28-61	Schlumberger	Sonic, LL, MLL
2/91	Schlumberger	NGT, GST

DST's:

INITIAL COMPLETION: Blinebry OPT - Flwd 164 BOPD, 9 BW, GOR 896, Gravity 39.5°, FTP 600#, 14/64" choke.

INITIAL COMPLETION DATE: 10/13/61

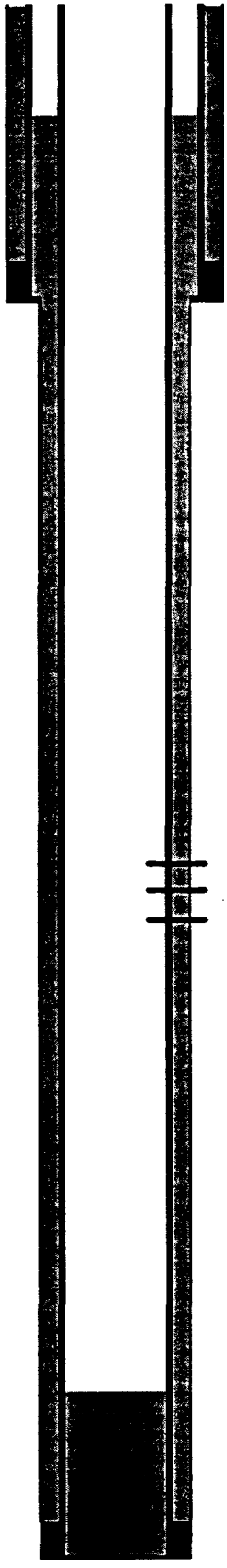
TREATMENTS AND WORKOVERS

10-61 Perf Tubb/Drinkard 5810-13', 30-36', 41-54', 62-66', 76-83' (4 spf) A/1000, SOF/20/24.
Perf Blinebry 5363-74', 80-5405', 18-24', 37-41', 46-54' (4 spf) A/250, SOF/20/24. Set Model "D" pkr @ 5790' WL

12-73 Set plug in pkr w/35' cmt on top. P&A'd Tubb/Drinkard.
Perf Blinebry 5141', 45', 49', 58', 65', 82', 84', 89', 96', 5212', 16', 27', 32', 42', 54', 61', 81', 5307', 33', 50', 5509', 12', 16', 22', 24' A/5507-22'/500. A/5363-5454/1000. A/5141-5350/1500. SWF/5141-5524/50/75

2-91 Ran logs

WELLBORE SCHEMATIC



South Justis Unit B #17

(Meridian Langlie Federal D #2)
1650' FSL & 2310' FWL (K)
Sec. 14, T-25S, R-37E, Lea Co., NM
KB 3128'
Spudded 06/05/63
Completed 07/15/63

TOC @ 595' by TS.

12-1/4" hole.
9-5/8" casing @ 938'.
Set w/318 sxs cmt. Circ.

Blinebry perfs @ 5182' to 5481'.

PBD @ 5482'.

7-7/8" hole.
4-1/2" csg @ 5609' w/780 sxs cmt.

TD @ 5610'.

SOUTH JUSTIS UNIT "B" #17

LOCATION: 1650' FSL & 2310' FWL (K), SEC. 14, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: MERIDIAN

FORMER WELL NAME: LANGLIE FEDERAL "D" #2

BLM TRACT NUMBER: 8 **API NUMBER:** 3002520464

SPUD DATE: 6/5/63

KB: 3128' GL: 3117' TD: 5610' PBTD: 5482'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"			938'	318 sxs cmt, circ
4-1/2"			5069'	780 sxs cmt, (TOC @ 595' - TS)

LOGS:

Date	Company	Log Name
6-24-63	Welex	Sonic Log, Guard, Forxo

DST's:

1	Paddock	5045-99'	Open 2 hr, GTS-5 min, rec 20' oil, 616' SW, 30" ISIP 1815, FP 245-249#, 30" FSIP 1135
2		5535-5610'	Open 2 hrs, rec 60' O&GCM, 580' GCXW, 30", ISIP 1460, FP 235-525, 60" FSIP 750

INITIAL COMPLETION: IP Blinebry (5441-81') Pump 62 BO, GOR 492

INITIAL COMPLETION DATE: 7/15/63

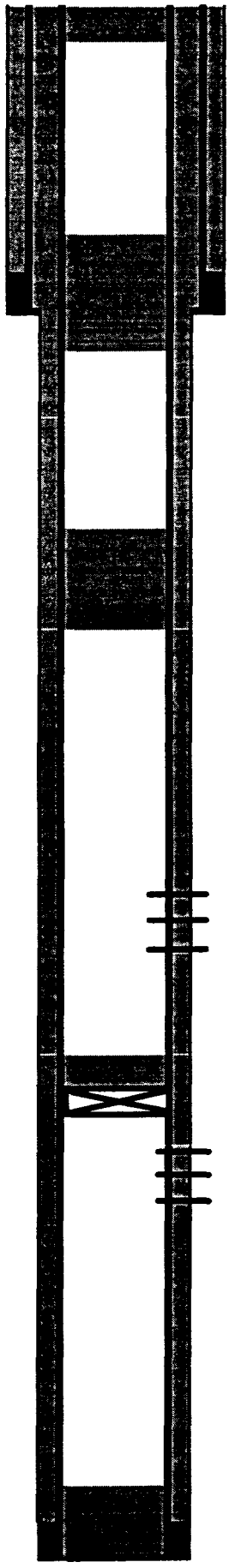
TREATMENTS AND WORKOVERS

Blinebry perfs 5441', 58', 68', 76', 81'. A/2000 gals. Added Blinebry perfs at 5182', 85' 5203', 05', 10', 12', 14', 39', 48', 52', 56', 60', 64', 90', 5308', 44', 56', 60', 64. A/1000 gals, Frac'd w/20,000 gals BW, 30,000# 7-69.

WELLBORE SCHEMATIC

Surface Plug.

11" hole.
8-5/8" casing @ 998'.
Set w/500 sxs cmt. Circ.
Cmt Plug (25 sxs) @ 998'.



Langlie B Federal #6

Amoco
2110' FSL & 990' FWL (L)
Sec. 14, T-25S, R-37E, Lea Co., NM
GR 3108'
Spudded 06/16/78
Completed 01/28/79
P&A'd 02/10/81

Cement Plug @ 3400' to 3500'

Blinebry perfs @ 5252' to 5650'.

CIBP @ 5670' capped w/35' cement

Tubb/Drinkard Perfs 5678'-5840'.

7-7/8" hole.
5-1/2" csg @ 6119' w/1400 sxs cmt.

PBD @ 6077'.
TD @ 6119'.

LANGLIE "B" FEDERAL #6

LOCATION: 2110' FSL & 990' FWL (L), SEC. 14, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: AMOCO

BLM TRACT NUMBER: 43 **API NUMBER:** 3002525935

SPUD DATE: 6/16/78

KB: GL: 3108' TD: 6119' PBTD: 6077'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"			998'	500 sxs cmt, circ
5-1/2"			6119'	1400 sxs cmt

LOGS:

Date	Company	Log Name

DST's:

INITIAL COMPLETION: IP Blinebry 5252-5650', Pumped 30 BO, 197 BW

INITIAL COMPLETION DATE: 1/28/79

TREATMENTS AND WORKOVERS

7-31-78 Tubb Perf: 5678-82', 5702-07', 72-84', 5806-10', 34-40', w/2 spf
Acidized w/6400 gals, swbd 7 BO, 38 BW in 10 hrs.,

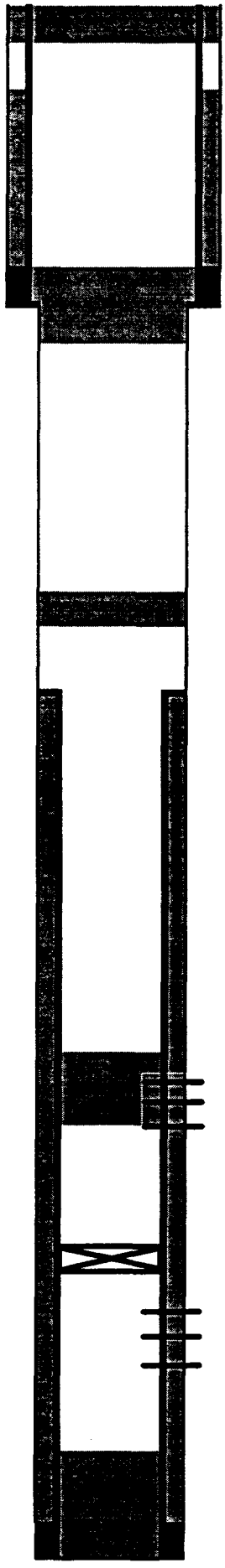
1-29-79 Perf'd Blinebry: 5252-5650' w/2 spf, Acidized w/5500 gals
Frac'd w/21,000 gals, 34,750# sd

9-81 Squeezed Blinebry (5252-5650'). Perf Blinebry 5442-5640', Acidized w/5000 gals; RBP @ 5420'. Perf Blinebry 5278-82', 87-91', 97-5300', 5309-13', 21-23', 29-31', 33-36', 39-41'. Acidized w/3500 gals. POH w/RBP at 5420', squeezed 5278-5660'. Perf Tubb 5678-5840' Acidized w/2000, RBP 5670'

D&A'd 9-81 Cum Blinebry 847 BO

On 2-6-81 moved in service unit. Pulled rods and tubing. Ran CIBP set @ 5670' and capped with 35' of cement. Spotted a Class C cement plug from 3400-3500'. Spotted a 25 sx Class C plug across 8-5/8" casing seat at 998'. Spotted 15 sx surface plug. Installed P&A marker and moved out service unit 2-10-81.

WELLBORE SCHEMATIC



Langlie B Federal #5

Amoco
330' FSL & 990' FWL (M)
Sec. 14, T-25S, R-37E, Lea Co., NM
KB 3103'
Spudded 03/04/64
Completed 04/28/64
P&A'd 10/24/71

Cement Plug (10 sxs) @ Surface.

TOC @ 142' (Calculated)

12-1/4" hole.
8-5/8" casing @ 958'.
Set w/425 sxs cmt.

Cement Plug (30 sxs) @ 971'.

Cement Plug (25 sxs) @ 2403'

Top of 4-1/2" csg @ 2535'

Spotted 35 sxs cmt to cover perfs
Perfs @ 5298' to 5431'

Retainer @ 5485'

Sqzd Blinebry perfs @ 5503' to 5604'.

PBD @ 5645'.

7-7/8" hole.

4-1/2" csg @ 5730' w/925 sxs cmt.

TD @ 5730'.

LANGLIE "B" FEDERAL #5

LOCATION: 330' FSL & 990' FWL (M), SEC. 14, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: AMOCO

BLM TRACT NUMBER: **API NUMBER:** 3002521010

SPUD DATE: 3/4/64

KB: 3103' GL: 3091' TD: 5730' PBTD: 5645'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"			958'	425 sxs cmt
4-1/2"			5730'	925 sxs cmt, (TOC @ 1442' - Calcd)

LOGS:

Date	Company	Log Name
3-22-64	Lane Wells	Sonic

DST's:

INITIAL COMPLETION: IP Blinebry (5503-5604') Pumped 13 BO, 93 BW, GOR 4920

INITIAL COMPLETION DATE: 4/28/64
P&A'd 10/24/71

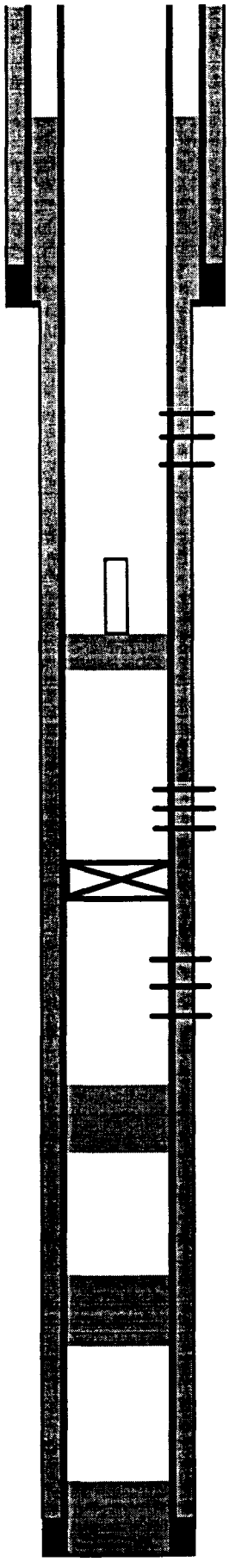
TREATMENTS AND WORKOVERS

Acidized Blinebry - 2000 gals, Frac'd w/30,000 gals oil, 15,000# sd.
Blinebry 5503-5604'. Cum 131 BO

Physical abandonment of well concluded 10-24-71. P&A as follows:
- Loaded hole w/mud
- Spotted 35 sxs cmt plug (5431-5298') to cover perfs
- Shot casing @ 2847' and pulled from 2535'
- Spotted 25 sx cement plug @ 2403'
- Spotted 30 sx cement plug @ 971' (9-5/8" CSA 958')
- Spotted 10 sx cement @ surface & erected P&A marker

Final cleaning shall be made and ground restored to contour.

WELLBORE SCHEMATIC



South Justis Unit B #18

(Meridian Langlie Federal D #1)
330' FSL & 2310' FWL (N)
Sec. 14, T-25S, R-37E, Lea Co., NM
KB 3117'
Spudded 12/06/62
Completed 03/02/63

TOC @ 485' by TS.

17-1/2" hole.
13-3/8" casing @ 935'.
Set w/600 sxs cmt. Circ.

Blinebry perfs @ 5123' to 5763'.

Top of Junk @ 5645'.

Cement @ 5800'.

Sqzd Perfs @ 6216' to 6224'.

CI Retainer @ 6230'.

Sqzd Perfs @ 6242' to 6655'.

Cement Plug 6720' - 6820'.

Cement Plug 7295' - 7495'.

8-3/4" hole.
7" csg @ 8195' w/1700 sxs cmt.

Cement Plug 8095' - 8195'.
TD @ 8195'.

SOUTH JUSTIS UNIT "B" #18

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

FORMER OPERATOR: MERIDIAN

FORMER WELL NAME: LANGLIE FEDERAL "D" #1

BLM TRACT NUMBER: 8 **API NUMBER:** 3002520464

SPUD DATE: 12/6/62

KB: 3117' GL: 3105' TD: 8195' PBTD: 5800'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"	48#	H-40	935'	600 sxs cmt, circ
7"	23-20#	N-80/J-55	8195'	1700 sxs cmt, (TOC @ 485' - TS)

LOGS:

Date	Company	Log Name
1-28-63	Welex	Sonic, Guard, FoRxo, Dip

DST's:

1	5060-5117'	Open 2 hr, rec 270' GCM + 540' sul wtr 30" ISIP/1165, FP 305-505, 30" FSIP/925
2	5135-5215'	Open 2 hr, rec 450' HO&GCM + 90' sul wtr, 30" ISIP/425, FP 215-295, 30" FSIP/425
3	5390-5510'	Open 2 hr, GTS 1 hr, rec 60' HO&GCM, 630' oil + 120' MCXW, 30" ISIP/1355, FP 335-475, 30" FSIP/1935
4	5902-62'	Open 45 min, rec 10' mud, 30" ISIP/45, FP 15-15, 45" FSIP/15
5	6050-6150'	Open 30 min, rec 84' mud, 30" ISIP/130 FP 70-70, 30" FSIP/100
6	7350-7476'	Open 2 hr, rec 30' mud + 540' salty sul wtr, 30" ISIP/1315, FP 200-330, 2 hr FSIP/1035

SOUTH JUSTIS UNIT "B" #18

7	8100-8195'	Open 25 min, rec 30' mud, 30" ISIP 105, FP 85-85, 30" FSIP/105

INITIAL COMPLETION: (Blinebry) - 5394-5515', Flwd 85.56 BOPD + 27% Wtr, 10/64" ch, GOR 1330, CP 400#, TP 500#

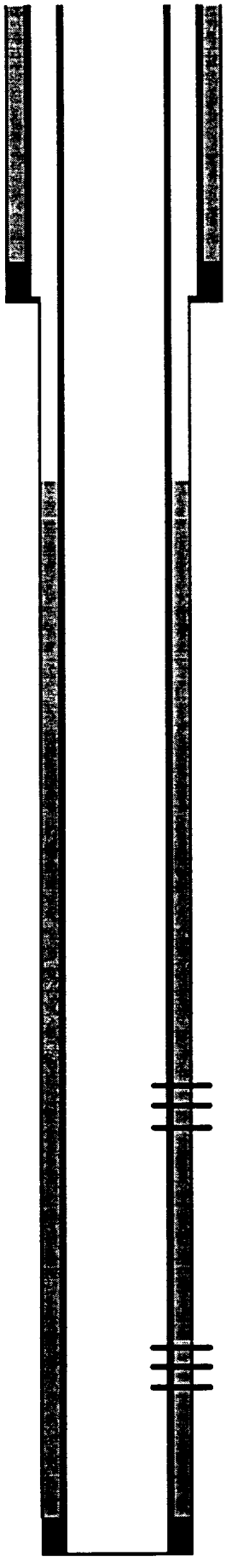
INITIAL COMPLETION DATE: 3/2/63

TREATMENTS AND WORKOVERS

Squeezed perfs 6551-6655'/100 sx. CO to 6478', perf 36/6348-66', 148/6394-6468', tr 1000 MA. Squeezed perfs 6348-6468/35 sx. CO to 6326', perf 148/6242-6316', tr 1000 MA, re-tr. 3000 ac. Squeezed perfs 6242-6316/100 sx. Perf 16/6216-24, tr 1000 ac. Squeezed perfs 6216-24/50 sx, spotted 600 gal acid. Perf 1 shot at 5394', 5401', 5409', 5432', 5442', 5501', 5515'. Trace 2000 gal acid, frac 20,000 gal acid + 20,000# sd perf 5394-5515'.

4-19-69	Frac w/40,000 gals GB + 57,500# sand
4-21-69	Treat w/500 gals 15% HCl Frac w/40,000 gals GB + 56,000# sand
6-21-69	DO to 5800' Perf @ 5550', 5576', 5580', 5608', 5618', 5632', 5644', 5670', 5690', 5694', 5704', 5716', 5728', 5752', 5763' w/1 SPI Frac (5550-5763') 20,000 gals wtr + 27,500# sd Perf @ 5123', 5165', 5187', 5192', 5204', 5216', 5220', 5224', 5232', 5242', 5248', 5280', 5286', 5292', 5324', 5328', 5342'

WELLBORE SCHEMATIC



South Justis Unit C #18

(Meridian Langlie 'B' #2)
330' FSL & 1650' FEL (O)
Sec. 14, T-25S, R-37E, Lea Co., NM
KB 3108'
Spudded 05/25/60
Completed 07/28/60

12-1/4" hole.
9-5/8" casing @ 975'.
Set w/450 sxs cmt. Circ.

TOC @ 1855' by TS.

Blinebry perfs @ 5079' to 5678'.

Tubb/Drinkard Perfs @ 5732' to 5860'.
Inactive

8-3/4" hole.
7" csg @ 5999' w/460 sxs cmt.

TD @ 6000'.

SOUTH JUSTIS UNIT "C" #18

LOCATION: 330' FSL & 1650' FEL (O), SEC. 14, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: MERIDIAN

FORMER WELL NAME: LANGLIE "B" #2

BLM TRACT NUMBER: 10 **API NUMBER:** 3002511582

SPUD DATE: 5/25/60

KB: 3108' GL: 3096' TD: 6000' PBTD:

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"			975'	450 sxs cmt, circ
7"			5999'	460 sxs cmt, (TOC @ 1855'-TS)

LOGS:

Date	Company	Log Name
6-18-60	Welex	GR-N, Guard, FoRxo

DST's:

1	5002-40'	Open 2 hr, rec 1260' gas, 150' GCM, 180' XW. FP 70-80#, 30" ISIP-1060#
2	5112-50'	Open 3 hrs. 58", F 11 BOPH, FP 210-675#
3	5755-5829'	Open 30", rec 12' mud
4	5829-80'	Open 4', rec 1400' oil, 10' XW, FP 170-440#, 30" ISIP-1645#
5	5940-6000'	Open 1-1/2', rec 60' M, 300' XW, FP 110-220#, 30" SIP 360#

INITIAL COMPLETION: IP Blinebry (5338-5460') Flwd 94 BO, GOR 242
Tubb/Drinkard (5824-60'), Flwd 427 BO, 284 BW, GOR 824

INITIAL COMPLETION DATE: 7/28/60

SOUTH JUSTIS UNIT "C" #18

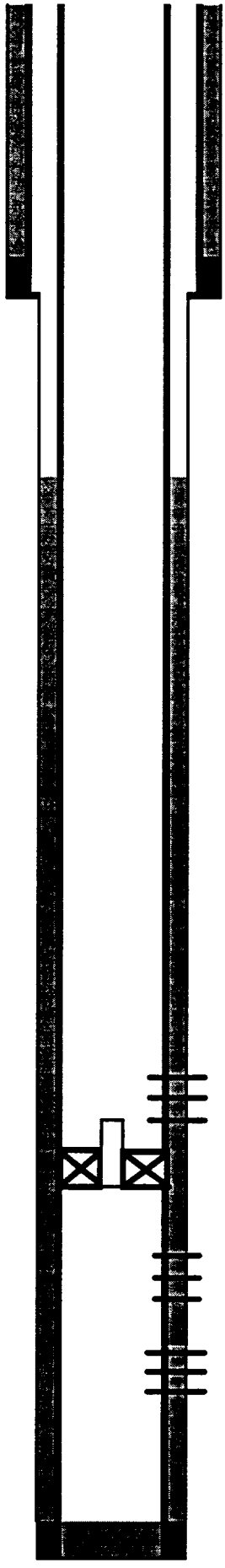
TREATMENTS AND WORKOVERS

Blinebry 5338-42' (56), 5376-86' (40), 5398-5414' (64), 5422-32' (40), 5450-60' (40), Acidized w/2000 gals, Frac'd w/10,000 gals LO, 22,000# sd

7-21-69 Perf'd at 5712' w/4 shots. Squeezed w/200 sx
Perf Tubb at 5732', 45', 46', 53', 60', 63', 70', 75', 79' & 88'
A/500 gals, Frac'd w/10,000 gals wtr, 15,000# sd
Perf Blinebry at 5584', 90', 5612', 32', 35', 42', 46', 60', 68', 73', 78
Frac w/10,000 gals wtr, 15000# sd (5584-5678')

7-69 Frac 5338-5460' w/20,000 gals wtr, 30,000# sd. Perf Blinebry at 5079', 86', 94', 96', 98', 5108', 12', 17', 28', 36', 44', 54', 68', 90', 96', 5208', 18', 34', 42', 54', 60', 76', 80', 84', 94', 5310', 14.
Frac 5079-5314 w/35,000 gals wtr, 52,500# sd

WELLBORE SCHEMATIC



South Justis Unit D #18

(Union/Meridian Langlie 'B' #1)
330' FSL & 330' FEL (P)
Sec. 14, T-25S, R-37E, Lea Co., NM
KB 3100'
Spudded 11/16/59
Completed 02/04/60

17-1/2" hole.
13-3/8" casing @ 839'.
Set w/700 sxs cmt. Circ.

TOC @ 2100' by TS.

Blinebry perfs @ 5375' to 5617'.

Model 'N' Packer @ 5646' w/plug

Tubb/Drinkard Perfs @ 5668' to 5872'

Sqzd Tubb/Drinkard Perfs @ 5924' to 5962'.

8-3/4" hole.
7" csg @ 5980' w/1170 sxs cmt.

PBD @ 5975'.
TD @ 5980'.

SOUTH JUSTIS UNIT "D" #18

LOCATION: 330' FSL & 330' FEL (P), SEC. 14, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: MERIDIAN

FORMER WELL NAME: LANGLIE "B" #1

BLM TRACT NUMBER: 10 **API NUMBER:** 3002511581

SPUD DATE: 11/16/59

KB: 3100' GL: 3091' TD: 5980' PBTD: 5979'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"	48#	H-40	839'	700 sxs cmt, circ
7"	20#/23#	J-55	5980'	1170 sxs cmt, (TOC @ 2100' - TS)

LOGS:

Date	Company	Log Name
12-28-59	Welex	GRN, Guard

DST's:

1	5000-87'	Open 2 hrs, rec 450' HGC&SLWCM, FP 130-210, 30" SIP 2200
2	5920-76'	Open 5 hrs, 40 min, F 4-5 BO/hr FP 210-450, 30" SIP 2245

INITIAL COMPLETION: Blinebry - 5375-5502' , Flwd 381 BO, 12 BW, 608 GOR, TP 745#, Gravity 38.2°
Tubb/Drinkard - 5924-62', Flwd 104 BO, GOR 885, TP 400#, Gravity 39.8°

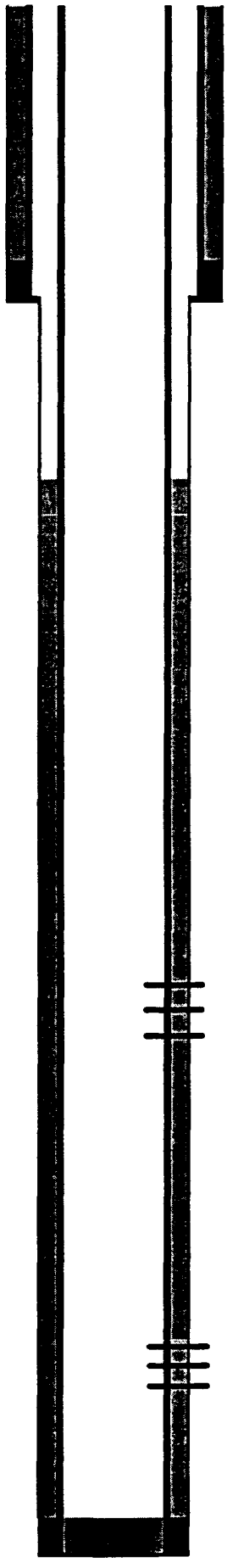
INITIAL COMPLETION DATE: 2/4/60

SOUTH JUSTIS UNIT "D" #18

TREATMENTS AND WORKOVERS

1960:	(Blinebry Perfs) 5375-86' (44), 5408-13' (20), 5450-54' (16), 5484-5502' (72), Acidized w/1000 SOF 10,000 gal/50,000# SD (Tubb/Drinkard) 5924-62' (152), Acidized w/250 gals
1968:	Sqzd Tubb/Drinkard perfs 5924-62' w/150 sxs. Perf Tubb/Drinkard 5797-5803', 5818-22', 5834-42', 5852-58', 5864-72' (37 holes). Frac'd w/10,000 gals wtr and 10,000# SD. Perf Tubb/Drinkard 5668-70', 5690-95', 5714-27', 5740-53', 5763-70' (45 holes). Perf Blinebry 5542-46', 5571-77', 5587-94', 5602-17' (36 holes). Frac'd w/5500 gals water and 5500# SD.

WELLBORE SCHEMATIC



South Justis Unit D #19

(ARCO Wimberly (JH) #2)
990' FNL & 330' FEL (A)
Sec. 23, T-25S, R-37E, Lea Co., NM
KB 3100'
Spudded 02/12/60
Completed 05/11/60

12-1/4" hole.
9-5/8" casing @ 848'.
Set w/350 sxs cmt. Circ.

TOC @ 2000' by TS.

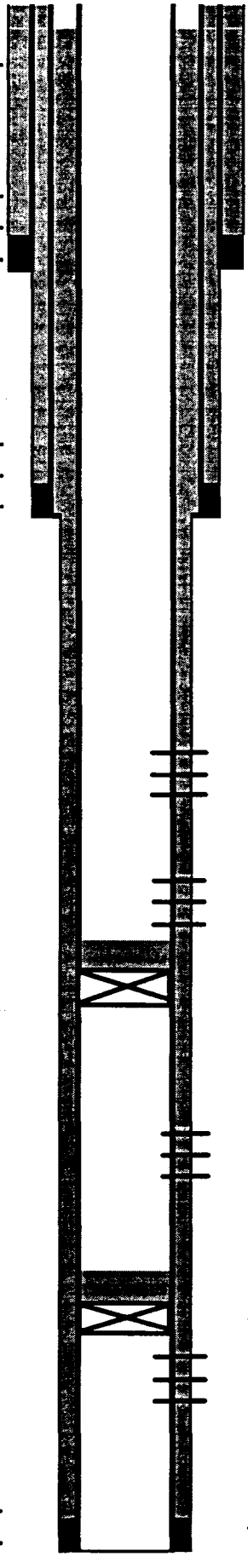
Blinebry perfs @ 5033' to 5564'.
Shut-in 09/90

Tubb/Drinkard Perfs @ 5702' to 5960'.
TA'd 05/69

8-3/4" hole.
7" csg @ 5986' w/660 sxs cmt.

PBD @ 5962'.
TD @ 5988'.

WELLBORE SCHEMATIC



TOC @ 40' by TS.

17-1/2" Hole.
13-3/8" casing @ 538'.
Set w/550 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3315'.
Set w/1500 sxs cmt. Circ.

South Justis Unit F #22

(Texaco A. B. Coates D #2)
660' FSL & 1650' FWL (N)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3079'
Spudded 07/21/58
Completed 08/29/58

Tubb/Drinkard Perfs @ 5729' to 5936'

Fusselman Perfs @ 6656' to 6678'

CIBP @ 6710'

Fusselman Perfs @ 6730' to 6849'

CIBP @ 6935' w/cement to 6928'

Fusselman Perfs @ 6862' to 6970'

8-3/4" hole.
7" csg @ 7005' w/800 sxs cmt.

TD @ 7007'.

SOUTH JUSTIS UNIT "F" #22

LOCATION: 660' FSL & 1650' FWL (N), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: TEXACO

FORMER WELL NAME: A. B. COATES "D" #2

BLM TRACT NUMBER: 1 **API NUMBER:** 3002511747

SPUD DATE: 8/20/58

KB: 3079' GL: TD: 7007' PBTD: 6700'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"	48#		538'	550 sxs cmt, circ
9-5/8"			3315'	1500 sxs cmt, circ
7"	23#	J-55/N-80	7005'	800 sxs cmt, (TOC @ 40' - TS)

LOGS:

Date	Company	Log Name
8/20/58	Schlumberger	GR-N, ML, IES

DST's:

INITIAL COMPLETION: IP Fusselman 6862-6970'
Drinkard 5870-5936', A/1000, 138 BO/2 BW/93 MCF/F

INITIAL COMPLETION DATE: 8/29/58

TREATMENTS AND WORKOVERS

9-62	Install gas lift Fusselman Install P.E. Tubb/Drinkard 6 BO/13 BW/P
9-64	Plugback Fusselman Frac Tubb/Drinkard F/20/20, 30 BO/ 43 BW/ GOR 3720/F
1-68	Install P.E. Tubb/Drinkard

SOUTH JUSTIS UNIT "D" #19

LOCATION: 990' FNL & 330' FEL (A), SEC. 23, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: WIMBERLY (JH) #2

BLM TRACT NUMBER: 49 **API NUMBER:** 3002511711

SPUD DATE: 2/12/60

KB: 3100' GL: 3086' TD: 5988' PBTD: 5962'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"			848'	350 sxs cmt, circ
7"			5986'	660 sxs cmt, (TOC @ 2000' - TS)

LOGS:

Date	Company	Log Name
3-17-60	Western	GR-N

DST's:

INITIAL COMPLETION: IP Blinebry (5398-5508'), Flwd 384 BO, 503 GOR, TP 450#, 14/64" ck, Gravity 38.6°
Tubb/Drinkard (5920-60') (4 spf), Flwd 112 BO, 0 BW, GOR 1869, TP 500 on 32/64" ck, Gravity 41°

INITIAL COMPLETION DATE: 5/11/60

TREATMENTS AND WORKOVERS

Drinkard Perfs: 5920-60' (80), Acidized w/1500 gals

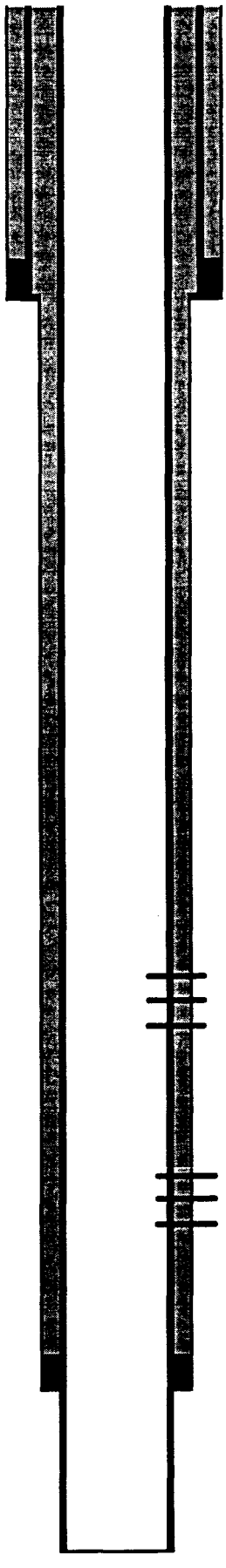
Blinebry Perfs: 5398-5406' (32), 5418-27' (35), 5450-74' (96), 5496-5508'(48), Acidized w/1500 gals SOF 20,000

SOUTH JUSTIS UNIT "D" #19

Added Tubb/Drinkard Perfs:	5702', 41', 50', 59', 5829', 38', 57' Acidized w/6500 gals, Frac'd w/20,000 gals LO, 27,500#, Frac 5920-60 w/20,000 gals LO, 27,500#
Added Blinebry Perfs:	5296', 5303', 22', 28', 56', 59', 5518', 31', 39', 56', 64'. Acidized w/1500 gals (10-66)

9-69	Perf'd Blinebry 5033-5285' w/32 1/2" holes Set pkr at 4937' & RBP @ 5384' Frac'd Blinebry w/60,000 gals BW, 90,000# 20/40, & 7000# salt. (Acidized w/1500 gals). AIR 24.7 BPM, ISIP 480#, POH w/RBP
12-80	CO fill to 5554'. Pumped 500 gals NEFE
1991	Well TA'd

WELLBORE SCHEMATIC



South Justis Unit C #19

(ARCO Wimberly WN #7)
660' FNL & 1650' FEL (B)
Sec. 23, T-25S, R-37E, Lea Co., NM
KB 3108'
Spudded 05/15/62
Completed 07/01/62

15" hole.
10-3/4" casing @ 904'.
Set w/610 sxs cmt. Circ.

Blinebry perfs @ 5111' to 5719'.

Tubb/Drinkard Perfs @ 5776' to 5888'.

9-7/8" hole.
7-5/8" csg @ 5917' w/1760 sxs cmt.

Tubb/Drinkard OH @ 5917' to 6042'

TD @ 6042'.

SOUTH JUSTIS UNIT "C" #19

LOCATION: 660' FNL & 1650' FEL (B), SEC. 23, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: WIMBERLY WN #7

BLM TRACT NUMBER: 48 **API NUMBER:** 3002511717

SPUD DATE: 5/15/62

KB: 3108' GL: TD: 6042' PBTD:

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
10-3/4"	33#	H-40	904'	610 sxs cmt, circ
7-5/8"	39#	N-80	5917'	1760 sxs cmt
	33.7#	J-55		
	26.4#	J-55		

LOGS:

Date	Company	Log Name
6-9-62	Schlumberger	Sonic, LL, MLL

DST's:

INITIAL COMPLETION: Blinebry OPT Flwd 412 BOPD, 0 BW on 18/64" choke
Tubb/Drinkard OPT Flwd 59 BOPD, FTP 350#, 24/64" choke
Gravity 35.8°, GOR 810

INITIAL COMPLETION DATE: 7/1/62

TREATMENTS AND WORKOVERS

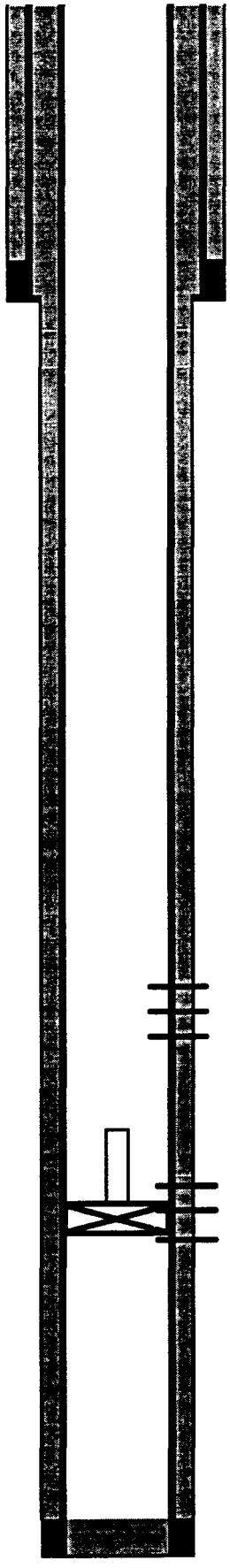
Perf Blinebry: 5324', 38', 46', 54', 80', 5418'. A/1500 SOF/15/17
OPT Flwd 412 BOPD, 0 BW on 18/64" choke

Perf Tubb/Drinkard: 5826-62' (2 spf), A/2000.
OPT Flwd 59 BOPD, set Model "D" @ 5710'

SOUTH JUSTIS UNIT "C" #19

5-65	Drld out pkr. Perf Drinkard 5776-80', 86-90', 5881-83', 86-88' A/250. SOF/20/20. OPT Flwd 61 BO, 5 BW/5 hrs. Set Model "D" @ 5750'.
4-71	P&A'd Tubb/Drinkard - Set plug in pkr w/2 sx cmt. Perf Blinebry 5210', 42', 88', 5470', 5501', 06', 21', 24', 38', 50' 5687', 41', 56', A/2000 SWF/60/60.
4-75	Perf Blinebry 5111', 16', 22', 33', 43', 65', 77'. A/5470-5656/ 2000. A/5324-5418/1000, A/5210-88/1000. A/5111-77/1000. SOF/5111-77/20/30.
8-87	CO to 5917'. Deepen to 6042'. Ran CNL 5800-6042'. Acidized Drinkard OH 5917-6042 w/2500 gals. Frac w/50,000 gals x-link, 60,000# sd. Acidized Tubb perfs 5776-5888 w/5000. Perf Blinebry 5194-5719'. Acidized w/10,000 gals. Downhole commingle Blinebry, Tubb/Drinkard.

WELLBORE SCHEMATIC



South Justis Unit B #19

(ARCO Wimberly WN #8)
660' FNL & 2310' FWL (C)
Sec. 23, T-25S, R-37E, Lea Co., NM
KB 3101'
Spudded 04/23/63
Completed 05/22/63

11" hole.
8-5/8" casing @ 920'.
Set w/500 sxs cmt. Circ.

Blinebry perfs @ 5167' to 5300'.

Junk on Top of RBP
RBP @ 5424'.
Blinebry Perfs @ 5352' to 5451'.

7-7/8" hole.
5-1/2" csg @ 5525' w/950 sxs cmt.

PBD @ 5515'.
TD @ 5525'.

SOUTH JUSTIS UNIT "B" #19

LOCATION: 660' FNL & 2310' FWL (C), SEC. 23, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: WIMBERLY WN #8

BLM TRACT NUMBER: 48 **API NUMBER:** 3002520081

SPUD DATE: 4/23/63

KB: 3101' GL: TD: 5525' PBTD: 5515'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"	24#	J-55	920'	500 sxs cmt, circ
5-1/2"	17/23/15.5#		5525'	950 sxs cmt, circ

LOGS:

Date	Company	Log Name
5-15-63	Schlumberger	Sonic, MLL, LL

DST's:

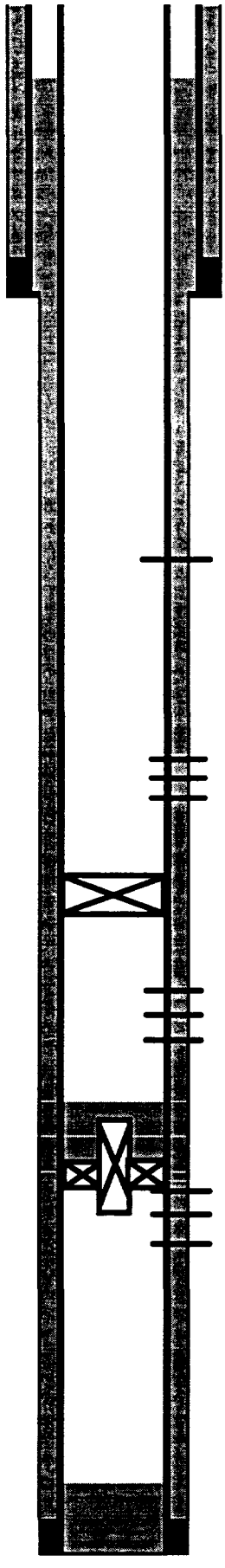
INITIAL COMPLETION: IP Flwd 480 BOPD, 758 GOR, TP 600#, 16/64" choke

INITIAL COMPLETION DATE: 5/22/63

TREATMENTS AND WORKOVERS

5-63	Perf Blinebry 5352', 84', 88', 5404', 14', 19', 32', 36', 47', 51'. A/400 SOF/15/15/11.5 TCO_2.
2-69	Perf Blinebry 5167', 73', 76', 82', 84', 89', 97', 98', 5214', 32', 34', 37', 39', 42', 48', 62', 64', 82', 5300', SOF/5167-5300/30/30. Left RBP @ 5325'. Flwd 408 BOPD, 36 BWPD, GOR 900, TP 520#
2-89	Pushed RBP to 5424'. Junk on top of RBP, Acidized 5167-5451' w/4500 gals. IP Pumped 17 BO, 55 BW, 16 MCF

WELLBORE SCHEMATIC



South Justis Unit B #20

(ARCO Wimberly WN #10)
1980' FNL & 2309' FWL (F)
Sec. 23, T-25S, R-37E, Lea Co., NM
GL 3084'
Spudded 08/13/65
Completed 11/03/65

TOC @ 550' TS

12-1/4" hole.
9-5/8" casing @ 956'.
Set w/500 sxs cmt. Circ.

Hole in csg @ 4134' - 4195'
Sqzd 475 sxs

Sqzd Blinebry Perfs @ 5142' to 5259'.

RBP @ 5300'

Blinebry perfs @ 5377' to 5510'.

PBD @ 5775'
P&A'd w/plug in pkr

Tubb/Drinkard Perfs @ 5814' to 5975'.

8-3/4" hole.
7" csg @ 6100' w/1060 sxs cmt.

PBD @ 6067'.
TD @ 6100'.

SOUTH JUSTIS UNIT "B" #20

LOCATION: 1980' FNL & 2309' FWL (F), SEC. 23, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: WIMBERLY WN #10

BLM TRACT NUMBER: 48 **API NUMBER:** 3002521354

SPUD DATE: 8/13/85

KB: GL: 3084' TD: 6100' PBTD: 6067'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"	32-36#	H-40/J-55	956'	500 sxs cmt, circ
7"	23-26#	J-55/N-80	6100'	1060 sxs cmt, (TOC @ 550' TS)

LOGS:

Date	Company	Log Name
9-14-65	Welex	Sonic, Guard, FoRxo
7-16-79	Welex	CBL

DST's:

1	Paddock	4850-4950'	Open 2 hrs, rec 300' oil ct muddy wtr & 30' GC Sul wtr, 5" IFP 105, 1' ISIP-571 FFP 126, FSIP 550

INITIAL COMPLETION: OPT Tubb/Drinkard Pmpd 79 BO, 48 BWPD, GOR 1120
OPT Blinebry Flwd 110 BO, 310 BLW, GOR 1200

INITIAL COMPLETION DATE: 11/3/65

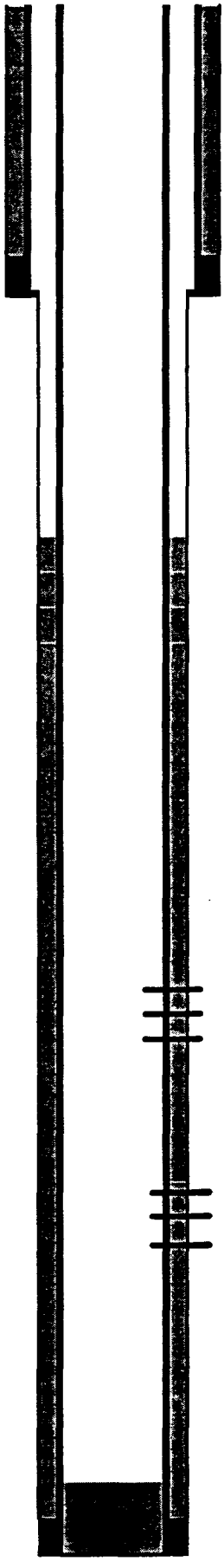
TREATMENTS AND WORKOVERS

9-65 Perf Tubb/Drinkard 5814', 23', 34', 37', 45', 57', 71', 76', 99', 5904', 23', 34', 38', 67', 75' (2 spf). Acidized w/2000 SOF/20/20. OPT Pmpd 16 BO, 32 BWPD, GOR 690, Gravity 36.2°. Perf Blinebry 5377-', 87', 93', 5446', 62', 79', 82', 90', 5510' (2 spf)
Acidized w/1500 SOF/20/40. OPT Flwd 79 BO, 48 BWPD, 88 MCF, FTP 210# on 18/64" choke, GOR 1120. Model "D" @ 5785'.

SOUTH JUSTIS UNIT "B" #20

2-67	P&A Tubb/Drinkard w/plug in pkr & 2 sx cmt. PBD 5775'
3-69	Set RBP @ 5300'. Perf Blinebry 5142', 48', 61', 65', 67', 91', 95', 99', 5212', 17', 59'. Acidized w/2000 SWF/30/30. OPT Flwd 110 BO, 310 BLW, GOR 1200.
7-79	Found hole in csg 4134-95'. Squeezed and tested, left RBP in hole.
5-80	Squeezed 5148-5259' w/1000 sx. CO to 5536'.

WELLBORE SCHEMATIC



South Justis Unit C #20

(Texaco Las Cruces C #1)
1980' FNL & 1650' FEL (G)
Sec. 23, T-25S, R-37E, Lea Co., NM
KB 3100'
Spudded 04/21/61
Completed 05/01/61

12-1/4" hole.
9-5/8" casing @ 910'.
Set w/450 sxs cmt. Circ.

TOC @ 3253' TS

Blinebry perfs @ 5090' to 5452'.

Tubb/Drinkard Perfs @ 5797' to 5912'.

8-3/4" hole.
7" csg @ 6000' w/700 sxs cmt.

PBD @ 5956'.
TD @ 6000'.

SOUTH JUSTIS UNIT "C" #20

LOCATION: 1980' FNL & 1650' FEL (G), SEC. 23, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: TEXACO

FORMER WELL NAME: LAS CRUCES "C" #1

BLM TRACT NUMBER: 26 **API NUMBER:** 3002511715

SPUD DATE: 4/21/61

KB: 3100' GL: 3088' TD: 6000' PBTD: 5956'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"			910'	450 sxs cmt, circ
7"			6000'	700 sxs cmt, (TOC @3253'-TS)

LOGS:

Date	Company	Log Name
4-21-61	PGAC	Sonic, LL, MLL

DST's:

1	408-5530'	Open 3', rec 90' SO&GCM, 480' O&GCM, 90' O&CCM, 15" ISIP-1440, FP 200-280, 20" FSIP-600
2	5530-5630'	Open 3', rec 270' GCM, 450' XW, 15" ISIP-1986, FP 232-372, FSIP-1504
3	5825-5900'	Open 3', F 40 BO 1-1/2 hrs, rec 180' OCM, 15" ISIP-2400, FP 320-600, 15" FSIP 1640

INITIAL COMPLETION: IP: Blinebry (5345-5452'), Flwd 431 BO, 48 BW, TP 675, Gravity 37°
Tubb/Drinkard (5850-5912'), Flwd 387 BO, TP 100, Gravity 37°

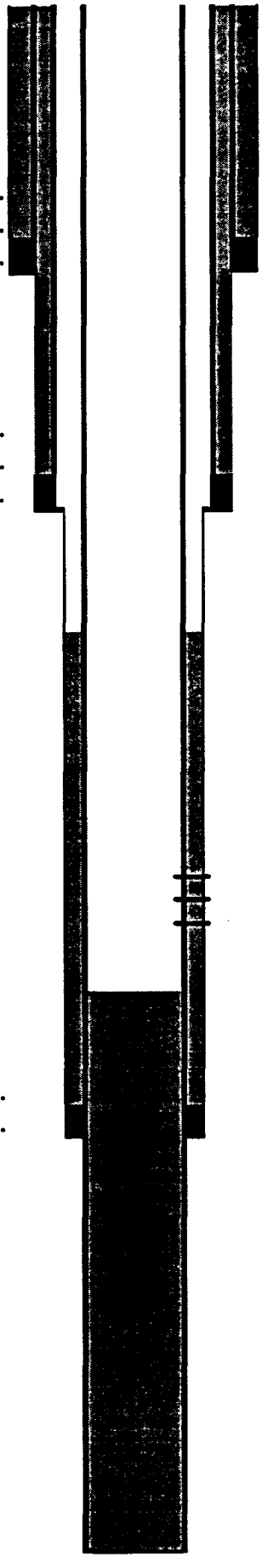
SOUTH JUSTIS UNIT "C" #20

INITIAL COMPLETION DATE: 5/1/61

TREATMENTS AND WORKOVERS

Tubb Perfs:	8/5850-52', 24/5859-65', 32/5874-82', 20/5888-93', 8/5910-12', Acidized w/500 gals
Blinebry Perfs:	20/5345-50', 8/5353-56', 32/5376-84', 12/5389-92', 8/5404-06', 5/5420-22', 8/5424-26', 8/5430-32, 32/5444-52'
2-67	Additional Tubb perfs 5797-5831'
5-69	Additional Blinebry perfs 5090-94', 96-99', 5101-05', 15-18', 22-26', 29-33', 43-45', 49-52', 5173-84', 91-5208', 5215-33' 5239-43', 64-71', 92-95', 5308-10', 12-16', (2 spf). Acidized w/2000 gals, Frac'd w/40,000 gals, 52,500# sd. Pumped 151 BO
9-75	DHC Blinebry & Tubb/Drinkard

WELLBORE SCHEMATIC



Wimberly (JH) #1

ARCO
1980' FNL & 660' FEL (H)
Sec 23, T-25S, R-37E, Lea Co., NM
KB-3101'
Spudded 06/25/47
Completed 12/12/47

17-1/2" Hole.
13 3/8" casing @ 296'.
Set w/350 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 2778'.
Set w/3250 sxs cmt. Circ.

TOC @ 3802' (Calculated)

Glorieta Perfs 4740' to 4770'.

PBD @ 4780'.

7-7/8" hole.
5-1/2" csg @ 6239' w/400 sxs cmt.

TD @ 9152'.

WIMBERLY (JH) #1

LOCATION: 1980' FNL & 660' FEL (H), SEC. 23, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: ARCO OIL AND GAS COMPANY

BLM TRACT NUMBER: 60 **API NUMBER:** 3002511714

SPUD DATE: 6/25/47

KB: 3101' GL: TD: 9152' PBTD: 4780'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			296'	350 sxs cmt, circ
9-5/8"			2778'	3250 sxs cmt, circ
5-1/2"			6239'	400 sxs cmt

LOGS:

Date	Company	Log Name
10-23-47	Schlumberger	SP-Res

DST's:

1	2890-2915'	Op 30 min, rec 180' mud, 60' O/G cut mud
2	4700-4871'	Op 35 min, gas 4 min, est max vol 7000 to 8000 MCF; very lt spray dist; rec 90' heavy gas cut mud, sl dist cut; 90' gas cut mud; FBHP 1000, 15 min SI 2000
3	7343-7420'	Op 2 hrs., bl air throughout, rec. 400' heavy O/G cut mud, FBHP 250#, 15" SI 300#
4	7979-8045'	Open 1 hr 45 min, rec 2160' sul wtr, top 100' O/G cut, remainder gas cut Cored: 8640-50', rec 8-1/2' shy sd, N/S Cored: 8832-37', rec 1-1/2' rd & grn sh, sd & dolo
5	8900-30'	Failed
6	9112-52'	Op 1 hr, good blow air, rec 1200' mud, 4000' XW (test 6165-85', 6110-30', 6020-45', 4900-60', 4815-45', 4740-95')

WIMBERLY (JH) #1

INITIAL COMPLETION: IP: Flwd 2820 MCFG, 25 BC, 75 BW per day thru open tbg, TP 480, SICP 1820, (Glorieta 4740-70')

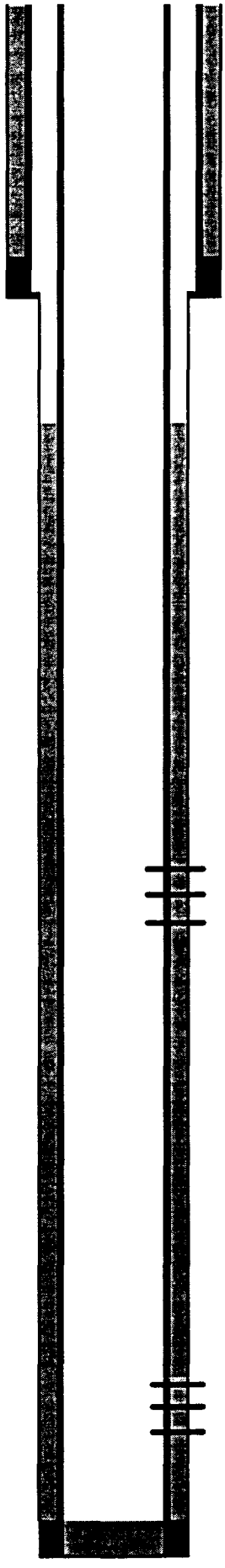
INITIAL COMPLETION DATE: 12/12/47

TREATMENTS AND WORKOVERS

Perf: 1820/4 1200 sq
2200 200 sq
2254/6; 2257/3, 2261 sq 225

PB 6239' Prep set plug @ PBD 6242' cmt at 4930', perf 4930-31'/4, sq 150 sx; cmt at 4430', Perfs #1: 6165-85/115; set pkr 6145, DST open 30 min, rec 1350' drlg wtr, lost 6" out of pits; set plug 6140; Perfs #2: 6110-30/40, set pkr 6080, DST open 45 min, rec 540' XW, SS/O, tr gas; FBHP 200 15" SI 500#; hydro-s 2800#, set plug at 6050, Perfs #3: 6020-45/50 set pkr 5990 DST 1 hr, rec 500' XW, SS/G, FBHP 200#, SI 15", 500#; HSP 2800#; Perf 4900-60/120, set plug 5000', DST 4870, op 35 min, rec 315' GC mud, SS/G; Perf 4815-45/60; DST 4785, Op 1 hr, flow gas 23 min, rec 1260' O/G cut mud, FBHP 400; 2000# 15" Hdst 2200#; 2-4918 swb down 3500' fr top no lower SS/O lots wtr. Plug 4860, swb down rec mud/oil to 700' fr bot; trtd 500 mud, swb down 3 BOPH to 350' of bot; fill 1000' OIH 12 hrs; 150# on tbg; trtd 5000 gals; 900# press; swb down to 3500 of bot, wtr broke in x; plug 4780; perf 60/ 4740-70, unloaded 2 days killing (250 sx X) 2-4600, tstg.

WELLBORE SCHEMATIC



South Justis Unit D #20

(ARCO Wimberly (JH) #3)
2310' FNL & 330' FEL (H)
Sec. 23, T-25S, R-37E, Lea Co., NM
KB 3097'
Spudded 04/11/60
Completed 06/01/60

12-1/4" hole.
9-5/8" casing @ 838'.
Set w/400 sxs cmt. Circ.

TOC @ 1790' by TS.

Blinebry perfs @ 5046' to 5500'.

Tubb/Drinkard Perfs @ 5739' to 5956'.

8-3/4" hole.
7" csg @ 5983' w/690 sxs cmt.

PBD @ 5980'.
TD @ 5984'.

O/A Engineering, rspWIMJH3SK.XLS

8/31/92 2:07 PM

SOUTH JUSTIS UNIT "D" #20

LOCATION: 2310' FNL & 330' FEL (H), SEC. 23, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: WIMBERLY (JH) #3

BLM TRACT NUMBER: 50 **API NUMBER:** 3002511712

SPUD DATE: 4/11/60

KB: 3097' GL: 3087' TD: 5984' PBTD: 5980'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"			838'	400 sxs cmt, circ
7"			5983'	690 sxs cmt, (TOC @ 1790'-TS)

LOGS:

Date	Company	Log Name
5-12-60	Western	GR-N

DST's:

INITIAL COMPLETION: IP Blinebry (5396-5500'), Flwd 950 BO, TP 400#, Gravity 38.6°
Tubb/Drinkard (5924-56'), Flwd 480 BO, 48 BW, TP 200#, Gravity 37.5°

INITIAL COMPLETION DATE: 6/1/60

TREATMENTS AND WORKOVERS

Tubb/Drinkard Perfs: 5924-56' (128), Acidized w/1500 gals

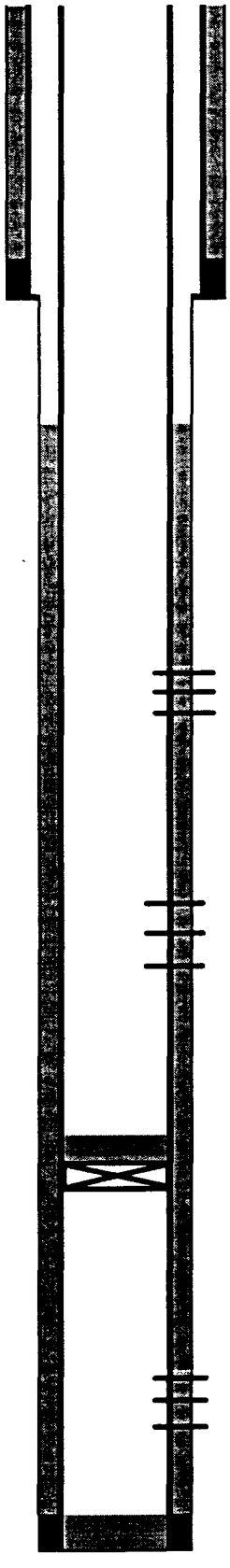
Blinebry Perfs: 5396-5406' (40), 5415-24' (36), 5428-32' (16), 5438-42' (16), 5456-74' (72), 5492-5500' (32), Acidized w/500 SOF 10,000 gals, 17,000#

8-60 Frac'd Tubb/Drinkard (5924-56') w/5000 gals, & 35,000#

SOUTH JUSTIS UNIT "D" #20

8-66	Additional Tubb/Drinkard Perfs: 5739', 51', 60', 87', 5806', 28', 48', 88' - 3/8" holes. Additional Blinebry Perfs: 5519', 33', 39', 63', 75' - 1/2" holes. Frac Drinkard perfs 5924-56' w/20,000 gals LO, 27,500# sd. Acidized Blinebry (5519-5575') and Tubb/Drinkard (5888-5739') w/4000 gals. Frac'd Tubb/Drinkard w/20,000 gals oil, 27,500# sd. Set BP @ 5328', Frac Blinebry 5396-5575 w/30,000 gals oil & 42,500# sd.
1-70	Additional Blinebry Perfs 5046-5343' (30), Acidized w/500, Frac'd w/60,000 gals & 90,000#

WELLBORE SCHEMATIC



South Justis Unit D #21

(ARCO Carlson Fed "A" #1)
1980' FSL & 330' FEL (I)
Sec. 23, T-25S, R-37E, Lea Co., NM
KB 3091'
Spudded 04/19/61
Completed 05/12/61

12-1/4" hole.
9-5/8" casing @ 905'.
Set w/290 sxs cmt. Circ.

TOC @ 2900' by TS.

Sqzd Paddock Perfs @ 4940' to 4976'.

Blinebry perfs @ 5048' to 5466'.

CIBP @ 5720'

Tubb/Drinkard Perfs @ 5770' to 5914'.

8-3/4" hole.
7" & 7-5/8" csg @ 6047' w/1000 sxs cmt.

PBD @ 6014'.
TD @ 6050'.

SOUTH JUSTIS UNIT "D" #21

LOCATION: 1980' FSL & 330' FEL (I), SEC. 23, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: CARLSON FED "A" #1

BLM TRACT NUMBER: 22 **API NUMBER:** 3002511704

SPUD DATE: 4/19/61

KB: 3091' GL: TD: 6050' PBTD: 6014'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"	32.2#		905'	290 sxs cmt, circ
7" & 7-5/8"	20#/23#		6047'	1000 sxs cmt, (TOC @ 2900')

LOGS:

Date	Company	Log Name
5-15-61	Schlumberger	GR-N, CBL

DST's:

INITIAL COMPLETION: Paddock: Flwd 169 BOPD, 3 BW, GOR 432
Blinebry: Flwd 56 BOPD, 56 BW, GOR 804, SITP 520#, Gravity 37.6°
Tubb/Drinkard: Flwd 153 BOPD, 7 BW, GOR 2115, SITP 1960#, Gravity 37.1

INITIAL COMPLETION DATE: 5/12/61

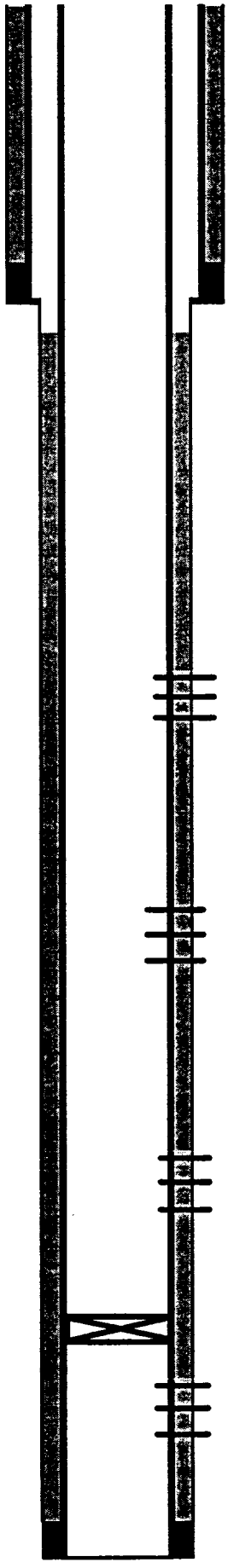
TREATMENTS AND WORKOVERS

5-62	Installed Kobe pump - Blinebry
4-65	Acidized w/1000 gals; SOF Blinebry w/30,000 gals LO & 35,000# sd
5-65	Perf'd 7" 5137-42' & squeezed communication between Paddock & Blinebry

SOUTH JUSTIS UNIT "D" #21

6-65	Squeezed Paddock 4940-76' w/85 sxs
5-72	Set CIBP @ 5720 w/6 sx cmt. Perf Blinebry 5048', 50', 60', 62', 74', 88' 5110', 30', 51', 5159', 61', 66', 85', 98', 5205', 07', 16', 28', 36', 5247', 54', 62' Acidized w/1000 gals Frac w/60,000 gals GBW & 60,000# sd. Re-squeeze Paddock w/127 sx. Single Blinebry 30 BO, 30 BW
1-86	Replaced split tbg 27 jts above SN. 1 jt of tbg & MA left in hole. 2 3/8" tbg set at 5528'

WELLBORE SCHEMATIC



South Justis Unit C #21

(ARCO Carlson Fed "A" #2)
1980' FSL & 1650' FEL (J)
Sec. 23, T-25S, R-37E, Lea Co., NM
KB 3088'
Spudded 07/28/61
Completed 09/30/61

TOC @ 1100' by TS.

12-1/4" hole.
9-5/8" casing @ 936'.
Set w/500 sxs cmt. Circ.

Sqzd Paddock Perfs @ 4973' to 5020'.

Blinebry perfs @ 5105' to 5386'.

Tubb Perfs @ 5820' to 5926'.

RBP @ 5945'

Drinkard Perfs @ 5967' to 6007'.

8-3/4" hole.
7" csg @ 6050' w/800 sxs cmt.

TD @ 6052'.

SOUTH JUSTIS UNIT "C" #21

LOCATION: 1980' FSL & 1650' FEL (J), SEC. 23, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: CARLSON FED "A" #2

BLM TRACT NUMBER: 22 **API NUMBER:** 3002511706

SPUD DATE: 7/28/61

KB: 3088' GL: TD: 6052' PBTD: 5758'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"	32.3#		936'	500 sxs cmt, circ
7"	20/23#		6050'	800 sxs cmt, (TOC @ 1100'-TS)

LOGS:

Date	Company	Log Name
8-24-61	Schlumberger	GR-N, LL, MLL
8-27-61	Schlumberger	CCL

DST's:

INITIAL COMPLETION: Tubb/Drinkard: 77 BO, 140 BW, GOR 1964, Gravity 0.8 - gas
Blinebry: 54 BO, 51 BW, GOR 333, Gravity 36°

INITIAL COMPLETION DATE: 9/30/61

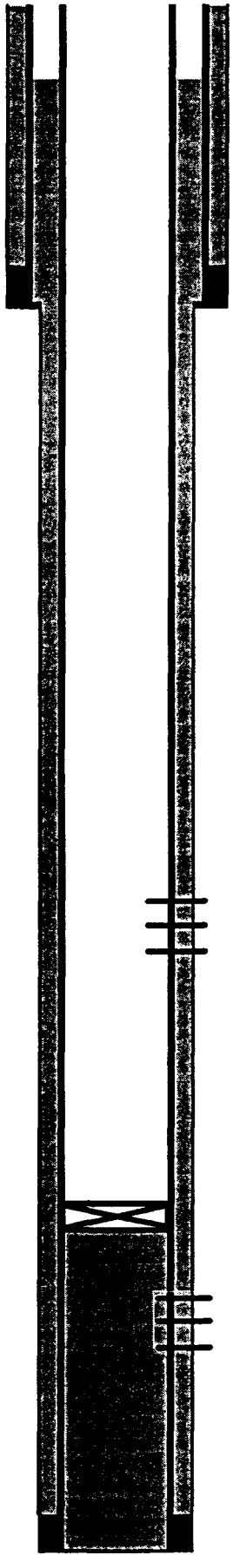
TREATMENTS AND WORKOVERS

9-61 Perf Blinebry 5310-5508', Acidized w/20,000 gals, Flwd 252 BF - 12 hrs. 80% wtr. Squeezed w/705 sx (Perf 5312-51', 72-86') 4 spf. Acidized w/10,000 gals.
Perf Paddock 5018-20', Sqzd w/25 sx, 4968-70', Sqzd w/30 sx, 4973-5015', Acidized w/1500 gals, Frac w/18,000 gals LO & 14,000# sd Tested wet; Sqzd w/215 sx

SOUTH JUSTIS UNIT "C" #21

12-61	Installed Kobe pump - Blinebry
12-66	Perf Blinebry 5203', 16', 22', 29', 45', 48', 5267', 81', 82 Acidized w/2000 gals; Frac w/25,000 gals LO & 30,000# IP 244 BO & 42 MCF - 27 hrs
4-70	Set plug in 415-D pkr at 5773'. Pumped 2 sx SD & 2 sx cmt. Tubb/Drinkard P&A'd.
6-80	Acidized Blinebry 5203-5376' w/3000 gals 15% NEA. Perf'd Blinebry at 5105', 11', 19', 33', 36', 44', 52', 57', 63'. Sqzd perfs 4968-5020' w/50 sx. Blinebry perfs now 5105-5163', 5203-5386', Pumped 5 BO, 40 MCF, 21 BW
9-80	Acidized Blinebry 5105-5163' w/1000 gals Frac'd Blinebry 5105-5163' w/15,000 gals gel acid, 14,000 gals gel 9# BW, 12,000# 40/60 salt. Tested 16 BO, 42 BW, 47 MCF
2-86	Holes in tbg 2 jts above SN - replaced. Now 172 jts 2 3/8" jts in hole. SN @ 5314'
6-86	Shut in.
1-88	CO to 6018', Perf Drinkard 5967-6007', Acidized w/2500 gals. IP Pumped 7 BO, 105 BW, 1 MCF.
3-88	Set RBP at 5952'. Acidized Tubb perfs 5820-5926' w/5000 gals. POH w/RBP. IPP 6 BO, 95 BW, 5 MCF
4-88	Set RBP @ 5945'. Pump Tubb perfs 5820-5926', 3 BO, 32 BW, 25 MCF. (Acidized w/5000 gals)
5-88	Set RBP @ 5509'. Acidized Blinebry 5048-5466' w/16,000 gals, 70 quality foamed acid.
12-88	POH w/RBP @ 5509'. Tag RBP @ 5945'.

WELLBORE SCHEMATIC



South Justis Unit B #21

(American Exploration Carlson A-23 #1)
2310' FSL & 2310' FWL (K)
Sec. 23, T-25S, R-37E, Lea Co., NM
KB 3043'
Spudded 04/04/77
Completed 08/22/77

TOC @ 344' (Calculated)

11" hole.
8-5/8" casing @ 1239'.
Set w/500 sxs cmt. Circ.

Blinebry perfs @ 5136' to 5736'.
Shut-in

BP @ 5800'

Tubb/Drinkard Perfs @ 5831' to 5903'.

7-7/8" hole.
5-1/2" csg @ 6194' w/960 sxs cmt.

TD @ 6200'.

SOUTH JUSTIS UNIT "B" #21

LOCATION: 2310' FSL & 2310' FWL (K), SEC. 23, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: AMERICAN EXPLORATION

FORMER WELL NAME: CARLSON A-23 #1

BLM TRACT NUMBER: 18 **API NUMBER:** 3002525474

SPUD DATE: 4/4/77

KB: 3043' GL: 3034' TD: 6200' PBTD: 5800'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"			1239'	500 sxs cmt, circ
5-1/2"			6194'	960 sxs cmt

LOGS:

Date	Company	Log Name
		CNL-FDC-DILL

DST's:

INITIAL COMPLETION: IP Blinebry (5136-5736'), P 90 BO, 252 BW

INITIAL COMPLETION DATE: 8/22/77

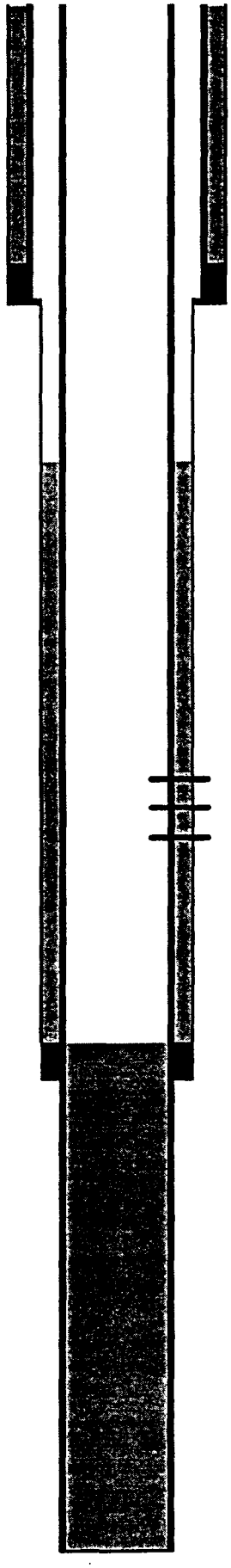
TREATMENTS AND WORKOVERS

Perf'd Tubb 5831-5903'. Acidized w/700 gals, set BP at 5800'

Perf'd Blinebry 5443-5736'. Acidized w/1300 gals, Frac'd w/16,000 gals, 21,000#

Perf'd Blinebry 5136-90'. Acidized w/1300 gals, Frac'd w/16,000 gals, 21,000#

WELLBORE SCHEMATIC



El Paso Federal #2

Russell E. Leeser
660' FSL & 2310' FWL (N)
Sec. 23, T-25S, R-37E, Lea Co., NM
KB 3064'
Spudded 01/11/69
Completed 03/17/69

11" hole.
8-5/8" casing @ 1207'.
Set w/430 sxs cmt. Circ.

TOC @ 1848' (Calculated)

Blinebry perfs @ 5158' to 5522'.

7-7/8" hole.
5-1/2" csg @ 6113' w/700 sxs cmt.

PBD @ 6091'

TD @ 7415'.

EL PASO FEDERAL #2

LOCATION: 660' FSL & 2310' FWL (N), SEC. 23, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: RUSSELL E. LEESER

BLM TRACT NUMBER: **API NUMBER:** 3002522961

SPUD DATE: 1/11/69

KB: 3064' GL: 3052' TD: 7415' PBTD: 6091'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"			1207'	430 sxs cmt, circ
5-1/2"			6113'	700 sxs cmt, (TOC @ 1848'-Calc'd)

LOGS:

Date	Company	Log Name
2-18-69	Dresser Atlas	Sonic, LL, MLL

DST's:

1	7380-7415'	Devonian	Open 2', rec 5130' sul wtr, 1' ISIP 2363#, FP 1189-2363, 3' FSIP 2363

INITIAL COMPLETION: IP: Blinebry (5158-5522') Flwd 105 BO, 270 BW, 24/64" choke, TP 30

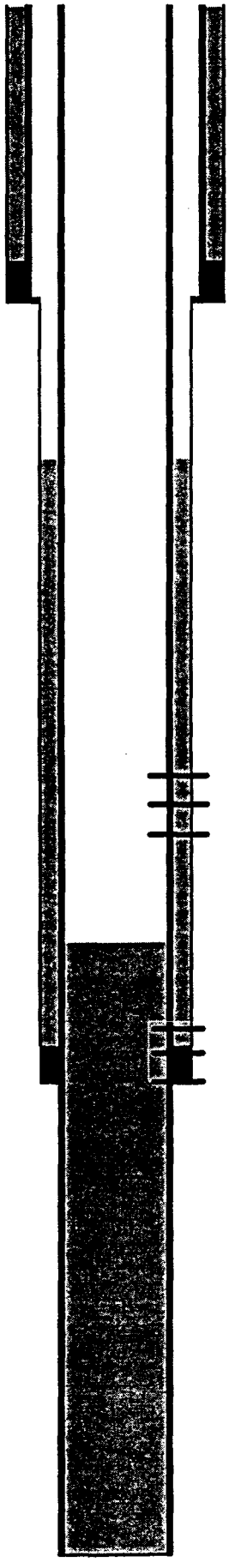
INITIAL COMPLETION DATE: 3/17/69

TREATMENTS AND WORKOVERS

Blinebry Perfs: 5293', 96', 5312', 20', 62', 72', 5459', 65', 75', 5513', 22', Acidized w/2000 gals, Frac w/16,000 gals, 18,000#

5158', 60', 72', 74', 84', Acidized w/1500 gals, Frac w/16,000 gals and 18,000#

WELLBORE SCHEMATIC



South Justis Unit C #22

(American Exploration El Paso Fed #1)
660' FSL & 1980' FEL (O)
Sec. 23, T-25S, R-37E, Lea Co., NM
KB 3074'
Spudded 12/01/68
Completed 02/01/69

11" hole.
8-5/8" casing @ 1171'.
Set w/430 sxs cmt. Circ.

TOC @ 3997' (Calculated)

Blinebry perfs @ 5100' to 5680'.
Shut-in

PBD @ 5740'

7-7/8" hole.
5-1/2" csg @ 6130' w/350 sxs cmt.

Tubb/Drinkard Perfs @ 5826' to 6033'

TD @ 7361'.

SOUTH JUSTIS UNIT "C" #22

LOCATION: 660' FSL & 1980' FEL (O), SEC. 23, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: AMERICAN EXPLORATION

FORMER WELL NAME: EL PASO FED #1

BLM TRACT NUMBER: 19 **API NUMBER:** 3002522906

SPUD DATE: 12/1/68

KB: 3074' GL: 3062' TD: 7361' PBTD: 5740'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"			1171'	430 sxs cmt, circ
5-1/2"			6130'	350 sxs cmt (TOC @ 3997'-Calc'd)

LOGS:

Date	Company	Log Name
1-8-69	Dresser Atlas	Sonic, LL, MLL

DST's:

INITIAL COMPLETION: IP: Blinebry (5100-5680'), Flwd 129 BO, 193 BW, GOR 1237, TP 350#, 1/4" choke, Gravity 38°

INITIAL COMPLETION DATE: 2/1/69

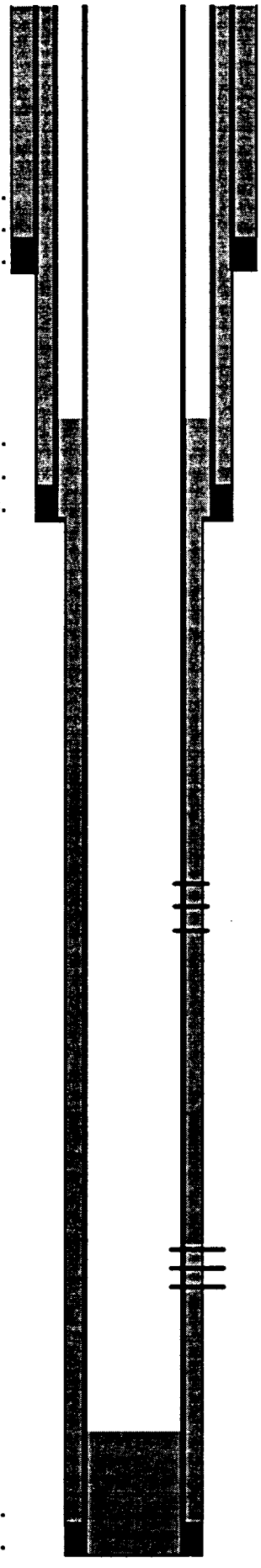
TREATMENTS AND WORKOVERS

Tubb/Drinkard Perfs: 5826', 55', 60', 90', 5934', 78', 6018', 33', Acidized w/2000 gals, Frac w/16,000 gals BW, 18,000# sd

5520', 26', 44', 48', 52', 56', 70', 73, 80', 82', 5650', 80', Acidized w/2000 gals, Frac w/16,000 gals BW, 18,000# sd

Blinebry Perfs: 5100', 12', 24', 40', 80', 93', 5244', 53', 66', 75', 5395', 5405', 15', 26'. Acidized w/2000 gals, Frac w/16,000 gals BW, 18,000# sd.

WELLBORE SCHEMATIC



South Justis Unit D #22

(Meridian Carlson B #1)
660' FSL & 330' FEL (P)
Sec 23, T-25S, R-37E, Lea Co., NM
KB-3086'
Spudded 06/05/59
Completed 09/16/59

17-1/2" Hole.
13 3/8" casing @ 566'.
Set w/500 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3334'.
Set w/590 sxs cmt. Circ.

TOC @ 2171' (Calculated)

Blinebry Perfs 5410' to 5456'.

Tubb/Drinkard Perfs@ 5780' to 5800'.

PBD @ 5855'.

8-3/4" hole.
7" csg @ 5965' w/540 sxs cmt.

TD @ 5965'.

SOUTH JUSTIS UNIT "D" #22

LOCATION: 660' FSL & 330' FEL (P), SEC. 23, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: MERIDIAN

FORMER WELL NAME: CARLSON "B" #1

BLM TRACT NUMBER: 16 **API NUMBER:** 3002511701

SPUD DATE: 6/5/59

KB: 3086' GL: TD: 5965' PBTD: 5855'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			566'	500 sxs cmt, circ
9-5/8"			3334'	590 sxs cmt, circ
7"			5965'	540 sxs cmt, (TOC @ 2171'- Calc)

LOGS:

Date	Company	Log Name
7-11-59	Schlumberger	GR-N, ML, I-ES

DST's:

1	4875-4970'	Open 1' 15", rec 240' OGCM, 240' XW, FP 128-335, 30" SIP - 1396
2	5720-5870'	Open 2-1/2', rec 100' oil, 200' HOGCM, 1200' SW, FP 195-398, 30" SI - 2326

INITIAL COMPLETION: IP: Blinebry (5410-56'), Flwd 98 BO, 70 BW, GOR 2350, TP 610, Gravity 37°
Tubb/Drinkard (5780-5800'), Flwd 120 BO, 38 BW, GOR 1730, Gravity 36°

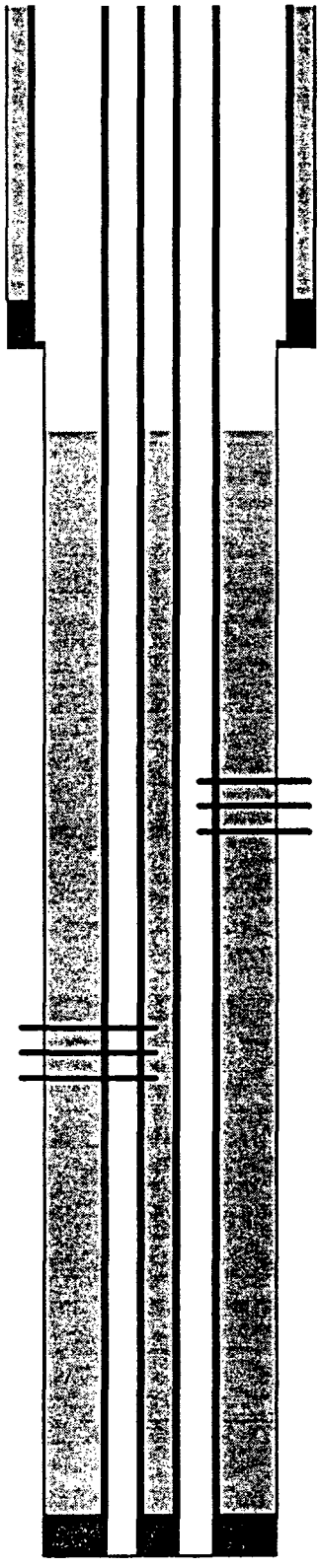
INITIAL COMPLETION DATE: 9/16/59

TREATMENTS AND WORKOVERS

Tubb/Drinkard Perfs: 5780-5800' (80), Acidized w/1750 gals

Blinebry Perfs: 5410-56' (144), Acidized w/2500 gals

WELLBORE SCHEMATIC



A. B. Coates C #25

Texaco
990' FNL & 940' FEL (A)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3080'
Spudded 01/11/63
Completed 02/21/63

12-1/4" Hole.
9-5/8" casing @ 893'
Set w/456 sxs cmt. Circ.

TOC @ 1400' by TS

Blinebry perfs 5234' to 5492'.
(Shut-in)

Tubb/Drinkard Perfs 5736' to 5907'.
(Shut-In)

8-3/4" hole.
?-7/8" csg @ 6012' w/1100 sxs cmt.

TD @ 6012'.

A. B. COATES "C" #25

LOCATION: 990' FNL & 940' FEL (A), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: TEXACO

BLM TRACT NUMBER: 12 **API NUMBER:** 3002520060

SPUD DATE: 1/11/63

KB: 3080' GL: TD: 6012' PBTD:

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"	36#	J-55	893'	456 sxs cmt, circ
2-7/8"	6.5#	J-55	6012'	1100 sxs cmt, (TOC @ 1400'-TS)
2-7/8"	6.5#	J-55	6012'	1100 sxs cmt, (TOC @ 1400'-TS)

LOGS:

Date	Company	Log Name
1-30-63	Schlumberger	Sonic, LL

DST's:

INITIAL COMPLETION: Dual-Blinebry 5234-5492', A/1000, F/24/42, 125°/84W/231MCF/F
Tubb-Drinkard 5736-5907', A/9000, 254°/0W/138 MCF/F

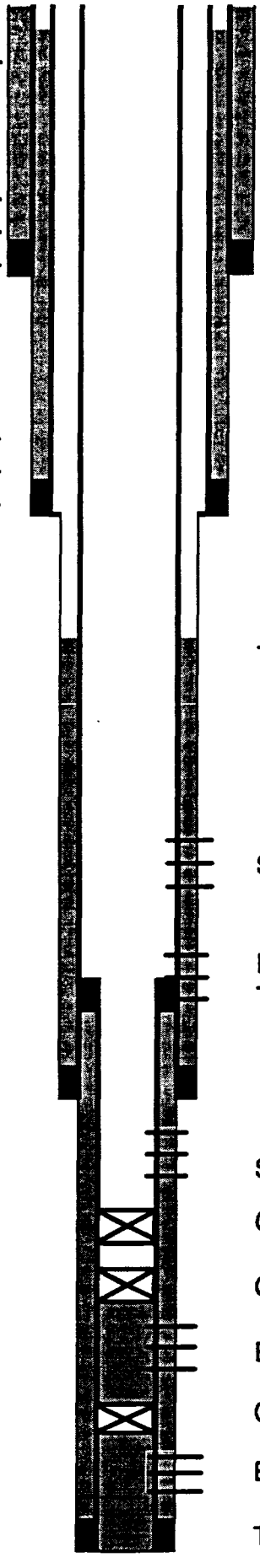
INITIAL COMPLETION DATE: 2/21/63

TREATMENTS AND WORKOVERS

10-66 Install P.E. Tubb-Drinkard

4-71 Downhole commingled
Blinebry Perfs: 24/5234-46', 6/5341-44', 8/5351-55', 14/5360-67', 20/5378-88', 26/5412-25', 28/5478-92, SOF 24,000 gals, 42,000#
Tubb/Drinkard Perfs: 16/5736-44', 6/5751-59', 10/5759-64', 12/5768-74', 8/5778-82', 12/5806-12', 4/5817-19', 6/5851-54', 10/5874-79', 4/5882-84', 6/5904-07', Acidized w/9000 gals SOF 30,000 gals, 30,000# sd

WELLBORE SCHEMATIC



A. B. Coates C #20

Texaco
990' FNL & 990' FEL (A)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3080'
Spudded 04/22/59
Completed 06/14/59

TOC @ 50' by TS.

17-1/2" Hole.
13 3/8" casing @ 533'.
Set w/550 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3314'.
Set w/1100 sxs cmt.

TOC @ 3275' by TS

Sqzd McKee Perfs 7152' to 7170'.

Ellenburger Perfs @ 7536' to 7658'
Top of 4-1/2" Liner @ 7554'

8-3/4" hole.
7" csg @ 7626' w/850 sxs cmt.

Sqzd Ellenburger Perfs @ 7643' to 7659'

CIBP @ 7660'

CIBP @ 7675'

Ellenburger Perfs @ 7693' to 7707'

Cement Retainer @ 7710'

Ellenburger Perfs @ 7741' to 7747'

4-1/2" Liner @ 7750'

TD @ 7750'.

A. B. COATES "C" #20

LOCATION: 990' FNL & 990' FEL (A), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: TEXACO

BLM TRACT NUMBER: 12 **API NUMBER:** 3002511742

SPUD DATE: 4/22/59

KB: 3080' TD: 7750' PBTD: 7675'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			533	550 sxs cmt, circ
9-5/8"	32.3/36#		3318'	1100 sxs cmt, TOC - 50'
7"	23#		7626'	850 sxs cmt, TOC - 3275'
4-1/2" Lnr	11.6	N-80	7626-7750'	

LOGS:

Date	Company	Log Name
6-3-59	Welex	GR-N, I-ES, Cal

DST's:

1	5279-5407'	Open 3', g 12" rec 280' SOOM, 90' HOGCM, FP 160-230 SI 30"/900
2	5960-6070'	Open 3', rec 190' SOGCM, FP 120-220, SI 30"/2000
3	6940-7260'	Open 2', M 12", G 1', F 486 BOPD for 1 hr; RO 6900' oil RBS 150' oil, 30' mud, FP 1440-1900, SI 30"/2820

INITIAL COMPLETION: Dual-Ellenburger 7626-7750' OH, F 351 BO
Justis McKee Unit #120 McKee 7152-7160', A/1000, F 76/ BO

INITIAL COMPLETION DATE: 6/14/59

TREATMENTS AND WORKOVERS

3-72	Squeeze off McKee and Plugback Ellenburger
3-72	New Ellenburger Perfs - 7643', 44', 45', 48', 49', 50', 53', 54', 55', 56', 57', 58', 59', Flwd 5 BLO, FTP 1075 w/gas Sqz 7643-59', PB 7710', Perf Ellenburger 14/7693-7707, A/1500
5-82	Plugback Ellenburger - CIBP @ 7660', perf Ellenburger 7536-7658', A/4000

SOUTH JUSTIS UNIT "G" #19

LOCATION: 660' FNL & 1980' FEL (B), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: TEXACO

FORMER WELL NAME: A. B. COATES "C" #6

BLM TRACT NUMBER: 12 **API NUMBER:** 3002511729

SPUD DATE: 2/13/57

KB: 3084' GL: TD: 8177' PBTD: 5615'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"	36/48#	SJ/N-40	414'	400 sxs cmt, circ
9-5/8"	40/36#	J-55	4825'	1425 sxs cmt-(TOC @ 3000'-TS)
7"	23#	J-55/N-80	7894'	800 sxs cmt
5" Liner	18#	J-55/N-80	7855'	60 sxs cmt

LOGS:

Date	Company	Log Name
5-17-57	Schlumberger	GR-N, IES, ML, LL, TDM

DST's:

INITIAL COMPLETION: IP Ellenburger (7893-8177'), F 1006 BO

INITIAL COMPLETION DATE: 6/10/57

TREATMENTS AND WORKOVERS

3-72 Recompleted to Montoya 6785', 88', 90', 92', 6800', 02', 04', 08', 09', 10', 15', 17', 19', 26', A/4800

3-74 Perf add. Montoya

12-77 Recomplete to Tubb, 5691-5793', perfs, A/2250, F/36/55, P 12 BO/11 BW/15 MCF

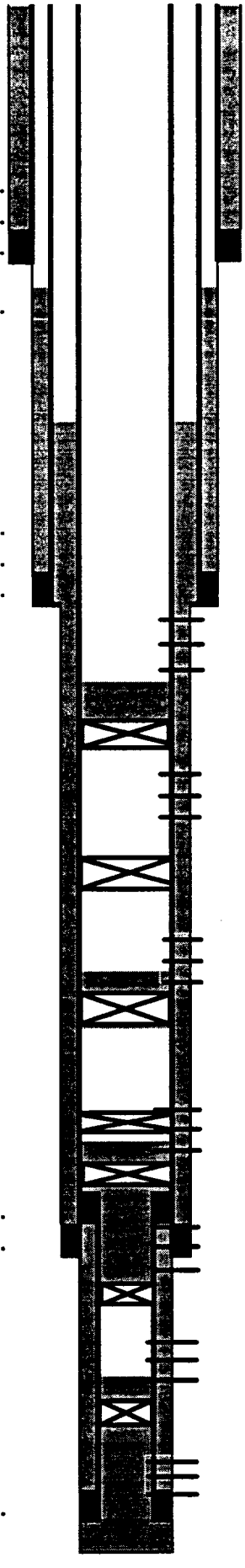
4-85 Recomplete to Paddock, 4886-4994', A/2215, F/28/46, P 6 BO/722 MCF/25 BW

9-67 Set CR at 7930', Sqzd OH 7893-8177 w/50 sx. Perf Ellenburger 7876-90' w/2 spf. F by gas lift 213 BOPD, GOR 554

5-69 Set CIBP at 7850'. Perf 7728-33', 7756-71' w/2 spf, A/1000 gal

10-71 Sqzd 7728-71' w/50 sx. Perf Ellenburger at 7715', 18', 19', 20', 23', 24', 25', 26', 27', 28'. A/500, P 1 BO, 372 BW

WELLBORE SCHEMATIC



South Justis Unit G #19

(Texaco A. B. Coates C #6)
660' FNL & 1980' FEL (B)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3084'
Spudded 02/13/57
Completed 06/10/57

17-1/2" Hole.
13 3/8" casing @ 414'.
Set w/400 sxs cmt. Circ.

TOC @ 860' by TS.

TOC @ 3000' by TS

12-1/4" Hole.
9-5/8" casing @ 4825'.
Set w/1425 sxs cmt.

Paddock Perfs 4886' to 4994'.

PBD @ 5615'
CIBP @ 5650' w/35' cmt

Tubb Perfs @ 5692' to 5793'

CIBP @ 6100'

Montoya Perfs @ 6706' to 6826'

CIBP @ 6980' w/10' cmt

CIBP @ 7748'
Ellenburger Perfs @ 7728' to 7771'

CIBP @ 7850'
Top of 5" Liner @ 7855' w/cmt to 7844'
Ellenburger Perfs @ 7876' to 7890'

8-3/4" hole.
7" csg @ 7894' w/800 sxs cmt.

CIBP @ 7930'

Ellenburger Perfs @ 8015' to 8038'

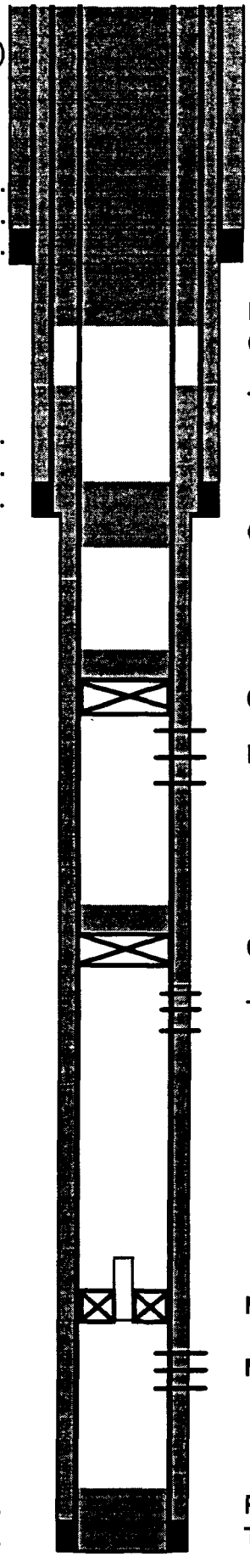
CIBP @ 8100' w/1 sx cmt

Ellenburger Perfs @ 8115' to 8145'

6" Hole.
5" Liner @ 8166' w/60 sxs cmt.

TD @ 8177'.

WELLBORE SCHEMATIC



TOC @ 49' (Calculated)

17-1/2" Hole.
13 3/8" casing @ 535'.
Set w/525 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3336'.
Set w/1300 sxs cmt.

8-3/4" hole.
7" csg @ 7520' w/800 sxs cmt.

A. B. Coates C #8

Texaco
660' FNL & 1880' FEL (B)
Sec 24, T-25S, R-37E, Lea Co., NM
KB 3092'
Spudded 08/26/57
Completed 12/08/57
P&A'd 04/01/85

Perfs @ 1100'. Circ w/500 sxs cmt.
Cmt Plug 1100' to Surface

TOC @ 2990' by TS

Cement Plug (20 sxs) @ 3276' to 3376'

CIBP @ 5000'

Blinebry Perfs @ 5031' to 5639'

CIBP @ 5800'

Tubb/Drinkard Perfs 5842' to 5950'.

Model "D" Packer @ 7219'

McKee Perfs @ 7325' to 7372'

PBD @ 7483'.
TD @ 7520'.

A. B. COATES "C" #8

LOCATION: 660' FNL & 1880' FEL (B), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: TEXACO

BLM TRACT NUMBER: 12 **API NUMBER:** 3002511730

SPUD DATE: 8/26/57

KB: GL: 3082' TD: 7520' PBTD: 7483'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			535'	525 sxs cmt, circ (TOC @ 49'-Calc)
9-5/8"			3336'	1300 sxs cmt
7"			7520'	800 sxs cmt (TOC @ 2990'-TS)

LOGS:

Date	Company	Log Name
10-3-57	Schlumberger	GR-N

DST's:

INITIAL COMPLETION: Drinkard Perfs: 5930-50', Acidized w/2000 gals, IP P 33 BO, 61 BW (12-8-57)
McKee Perfs: 7325-72', Acidized w/1500 gals, IP F 274 BO, GOR 1075 (10-12-57)

INITIAL COMPLETION DATE: 12/8/57

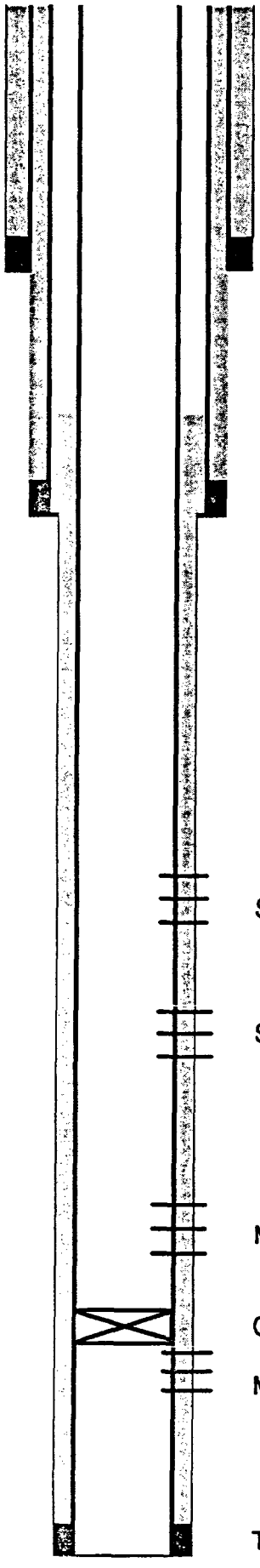
TREATMENTS AND WORKOVERS

1963 Added perfs 5842-5914' (Tubb)

1-7-73 Set CIBP @ 5800' w/35' cmt. Perf'd Blinebry (5031-5639') w/59 shots SWF/60,000 gals, 112,500#, IP F 40 BO, 46 BW, TP 160

4-1-85 Set CIBP @ 5000' w/35' cmt. Set 20 sxs cmt plug 3276-3376'. Circulated 500 sxs cmt plug through Bradenhead. Sqzd 50 sxs cmt and plug down 7". P&A

WELLBORE SCHEMATIC



A. B. Coates C #22

Texaco
660' FNL & 2310' FEL (B)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3081'
Spudded 01/24/59
Completed 03/08/59

17-1/2" Hole.
13 3/8" casing @ 533'.
Set w/550 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3306'.
Set w/900 sxs cmt. Circ.

TOC @ 2845' by TS

Sqzd Blinebry Perfs 5314' to 5570'.

Sqzd Tubb/Drinkard Perfs @ 5638' to 5816'.

Montoya Perfs @ 6747' to 6773'

CIBP @ 6810'

Montoya Perfs @ 6814' to 6830'

8-3/4" hole.
7" csg @ 6795' w/600 sxs cmt.

TD @ 6881'.

A. B. COATES "C" #22

LOCATION: 660' FNL & 2310' FEL (B), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: TEXACO

BLM TRACT NUMBER: 12 **API NUMBER:** 3002511744

SPUD DATE: 1/24/59

KB: 3081' GL: TD: 6881' PBTD: 6810'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			533'	550 sxs cmt, circ
9-5/8"			3306'	900 sxs cmt, circ (TOC@ 2845'-TS)
7"	23#		6795'	

LOGS:

Date	Company	Log Name
2/26/59	Schlumberger	GR-N

DST's:

INITIAL COMPLETION: IP Dual-Montoya (6814-6830'), F 450 BO, TP-520, Blinebry (5314-5443') A/500, F/15/15, 124 BO /0 BW /GOR 1085 /F

INITIAL COMPLETION DATE: 3/8/59

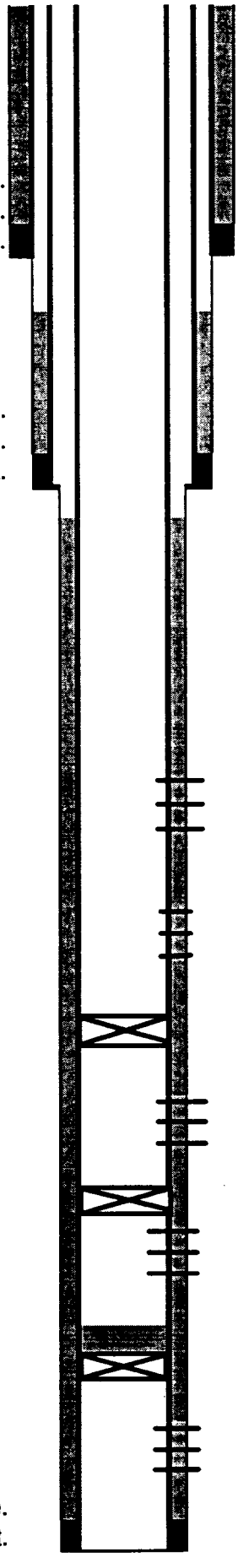
TREATMENTS AND WORKOVERS

10-66	Install P.E. Blinebry (29 BO/1BW/3207 GOR/P)
8-67	Install P.E. Montoya
1-68	Pull tubing to clean out scale - Blinebry (16 BO/0 BW/GOR 8563/P)
9-69	Add perf Blinebry 5254-5570' (5254-56', 5274-76', 5425-27', 5460-64', 5489-91', 5566-70') Acidized/500, F/40/60, 42 BO/17 BW/GOR 976/P
10-76	Abandon Montoya

A. B. COATES "C" #22

12-76	Attempted to Dual-Blinebry (same) Tubb/Drinkard 5638-5816' A/5000, No oil or gas recovered from Tubb/Drinkard
2-79	Recomplete in Montoya

WELLBORE SCHEMATIC



South Justis Unit F #19

(ARCO Wimberly WN #2)
660' FNL & 1980' FWL (C)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3089'
Spudded 07/10/57
Completed 10/02/57

17-1/2" Hole.
13-3/8" casing @ 544'.
Set w/700 sxs cmt. Circ.

TOC @ 1010' by TS

12-1/4" Hole.
9-5/8" casing @ 2392'.
Set w/3100 sxs cmt.

TOC @ 2927'
Sqzd Hole @ 3015' w/330 sxs

TOC @ 3400' by TS

Tubb/Drinkard Perfs 5698' to 6043'

Sqzd Drinkard Perfs 5874' to 5924'.

CIBP @ 6070'

Sqzd Fusselman Perfs @ 6655' to 6756'

CIBP @ 6800'

Sqzd Montoya Perfs @ 6851' to 6917'

TOC @ 7950'
CIBP @ 7970'

Ellenburger Perfs @ 8184' to 8231'

8-3/4" hole.
7" csg @ 8235' w/1550 sxs cmt.

TD @ 8235'.

SOUTH JUSTIS UNIT "F" #19

LOCATION: 660' FNL & 1980' FWL (C), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: WIMBERLY WN #2

BLM TRACT NUMBER: 48 **API NUMBER:** 3002511749

SPUD DATE: 8/27/58

KB: 3089' GL: TD: 8235' PBTD: 6070'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"	40#	H-40	544'	700 sxs cmt, circ
9-5/8"	36/40#	J-55/N-80	2392'	3100 sxs cmt, (TOC @ 1010'-TS)
7"	23#	J-55/N-80	8235'	1550 sx cmt, (TOC @ 3400' by TS)

LOGS:

Date	Company	Log Name
9/23/57	Schlumberger	GR-N, ML, IES

DST's:

1	Drinkard	5865-5930'	Open 2' 35" G 9", rec 25 BO, 90' HOGCM, IP-200, FF-560,20" SIP 2395#
2	Montoya	6840-6910'	Open 1' 50", G5", rec 35 BO, 120' HOGCM, 30" SIP 1585
3	Simpson	7180-7230'	Open 1' 15", rec 95' DM, 180' XW, IF-0, FF-190, 20" SIP-965
4	McKee	7585-7739'	Open 2', G 1'8", rec 430 OGCM < 5% 0 asphaltic, IF-189, FF-290, 20" SI-210
5	McKee	7586-7781'	Open 2-1/2', IF 470, FF-1140, 20" SI-3290, Rec 2079' GCM, 651' OGCM, 186' MCXW,990' XW
6	Ellenburger	8180-8225'	Open 2', IF-535, FF-975, 30" SI-3260 GTS 4" OTS 57", F 14.5 BO/30", rec 90' O&GCM

SOUTH JUSTIS UNIT "F" #19

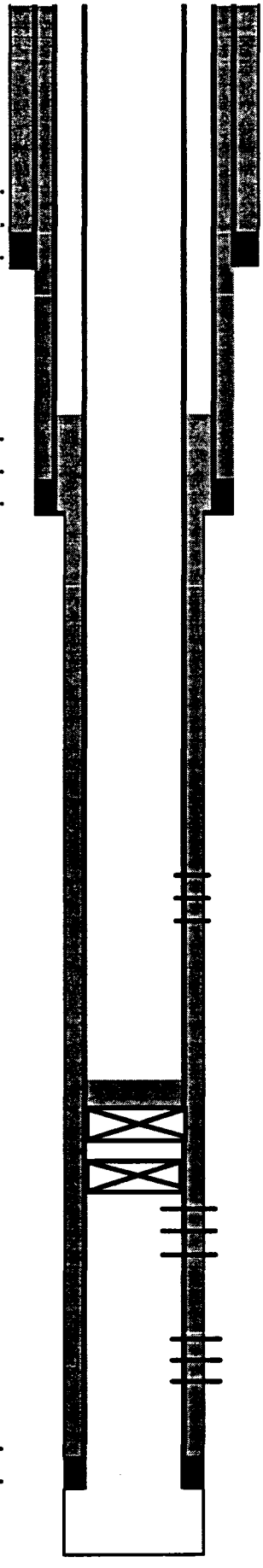
INITIAL COMPLETION: Ellenburger 8184-8231' (4 spf)
636 BO, 782 MCF, GOR 1230, FTP 460# on 1/2" choke

INITIAL COMPLETION DATE: 10/2/57

TREATMENTS AND WORKOVERS

6-58	P&A Ellenburger w/CIBP @ 7970' w/20' cmt Perf Fuss 6736-56 (4 spf), A/4000, F 44 BOPH Perf Drinkard 5874-5924' (4 spf), A/2000, F 506 BOPD
8-62	Put Drinkard on gas lift
1966	Put Fusselman on hydro pump
5-67	Ran scab liner 5" from 5835-5941', TA Drinkard
11-69	Pulled 5" scab liner. Sqzd hole in 7" csg @ 3015' w/330 sx, TOC @ 2927'. Sqzd Drinkard 5874-5924' w/375 sx Perf Fuss 6655', 6664', 6666', 6667', 70', 73', 74', 75', 80', 87', 99', 6718', 28', 32', & 44'. A/5000
4-71	Acidized Fuss/6718-56 w/5000
9-76	Sqzd Fuss 6655-6756'/500 sx. Sqzd hole in csg @ 6920-7000' w/120 sx Perf Montoya 6851', 55', 63', 68', 71', 79', 86', 89', 93', 97', 6912', 17', A/1300. A/3000. OPT 13 BOPD, 123 BW, 38 MCF
6-77	Set CR @ 6800'. Sqzd Montoya 6851-6917' w/200 sx. Set CIBP @ 6070'. Perf'd Tubb/Drinkard 5698', 5702', 16', 28', 39', 48', 66', 70', 73', 89', 5813', 17', 22', 25',28', 33', 38', 43', 49', 62', 69', 80', 86', 92', 98', 5902', 08', 11', 16', 26', 30', 34', 41', 45', 56', 61', 85', 98', 6010', 21' 29', 34', 40', 43'. A/3000, SWF/70k/122k. OPT 25 BO, 41 BW, 290 MCF.

WELLBORE SCHEMATIC



Wimberly WN #5

ARCO Oil and Gas Company
990' FNL & 2310' FWL (C)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3089'
Spudded 03/22/58
Completed 05/28/58

17-1/2" Hole.
13-3/8" casing @ 532'.
Set w/550 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3376'.
Set w/2163 sxs cmt. Circ.

TOC @ 3025' by TS

Blinebry Perfs 4994' to 5569'.

PBD @ 6070'
CIBP @ 6100'

CIBP @ 6224'

Fusselman Perfs @ 6647' to 6668'

Montoya Perfs @ 6802' to 7015'

8-3/4" hole.
7" csg @ 8085' w/1100 sxs cmt.

TD @ 8210'.

WIMBERLY WN #5

LOCATION: 990' FSL & 2310' FWL (C), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

BLM TRACT NUMBER: 48 **API NUMBER:** 3002525537

SPUD DATE: 3/22/58

KB: 3089' GL: 3078' TD: 8210' PBTD: 6070'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"	48#		532'	550 sxs cmt, circ
9-5/8"	36#	J-55	3376'	2163 sxs cmt, circ
7"	23-26#	N-80/J-55	8085'	1100 sxs cmt, (TOC @ 3025'-TS)

LOGS:

Date	Company	Log Name
5/29/58	Lane Wells	GR-N
12/3/76	Dresser-Atlas	Magnelog

DST's:

INITIAL COMPLETION: OPT 113 BO/6 hrs., Flwd 28/64" choke, 452 BOPD, 880 MCFD, TP 400#, GOR 1947
Ellenburger (8085-8210')

INITIAL COMPLETION DATE: 5/28/58

TREATMENTS AND WORKOVERS

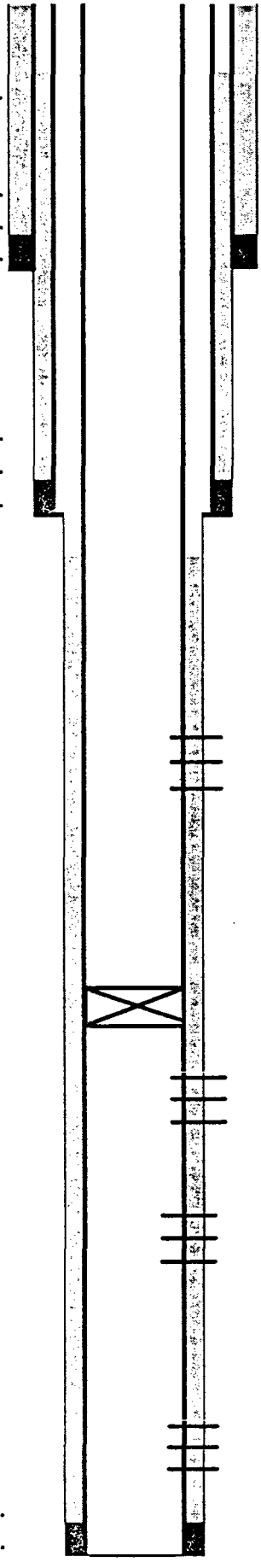
6-58 Perf Montoya 7002-15' (4 spf) flowed 264 BO in 10 hrs., Gravity 36.6°, 20/64" choke, FTP 580#, GOR 788. Completed as dual producer

9-61 Set CIBP @ 7413', cmt pkr tbg in hole, DO cmt to 6823'
Perf Montoya 6802-22' (2 spf), acidized w/6000, pkr @ 6495'
Perf Blinebry 5391-5463', 5417-23', 39-44', 77-83' (2 spf), Acidized w/1000 SOF/10/46. Flowed 368 BO, 0 BW, 22/64" choke
Dual Montoya/Blinebry

WIMBERLY WN #5

3-62	Montoya on gas lift
7-67	Acidized/Blinebry/500
7-68	Squeezed Montoya 150 sx, perf Fusselman 6647-48', 51', 54', 63', 68', (2 spf). Acidized w/4000 Model D @ 6670', Gravity 36.4°, 60 BOPD, 0 BW, 56 MCFD, GOR 940, 1/4" choke, FTP 40# SI Fusselman 7/70 - Set plug in pkr w/2 sx cmt on top
12-76	Set CIBP @ 6100' w/30' cmt, Acidized w/5243-5569', 40000-50/50 Perf Blinebry: 4994', 5005', 12', 22', 32', 46', 57', 63', 5106', 10', 14', 27', 30', 55', 61', 67', 5174'. Acidized w/2000 gals, Frac'd w/48,000 gals x-linked KCL, 24,000# 100 mesh, 54,000# SA
7-71	Set CBP @ 6224' w/25 sx cmt, P&A Fusselman. Perf Blinebry 5243', 46', 61', 66', 80', 90', 5300', 03', 06', 16', 19', 32', 52', 5544', 57', 66', 69' Acidized w/5544-69/420 gals. Acidized 5243-5352/1080 gals Frac/5243-5569/60/60 4 stages. Flwd 19 BO, 23 BW on 34/64" choke, FTP 145#
12-76	Set CIBP @ 6100' w/30' cmt. A/5243-5569/4000 gals 50-50 Xylene-HCL Perf'd: 4994', 5005', 12', 22', 32', 46', 57', 63', 5106', 10', 14', 27', 30' 55', 61', 67', 5174', A/2000, Frac/48/54/3 stages A/4994-5569/1000 - no production improvement
12-77	Acidized Blinebry 4994-5569' w/5000 gals, 7-1/2% Flwd 5 BO, 5 BW, 189 MCF, TP 60#, GOR = 37, 800

WELLBORE SCHEMATIC



Wimberly WN #11

ARCO Oil and Gas Company
990' FNL & 1490' FWL (C)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3081'
Spudded 06/21/77
Completed 08/02/77

TOC @ 400' by TS.

17-1/2" Hole.
13-3/8" casing @ 504'.
Set w/525 sxs cmt. Circ.

11" Hole.
8-5/8" casing @ 3350'.
Set w/700 sxs cmt.

TOC @ 4390' by TS

Tubb/Drinkard Perfs 5656' to 6025'

CIBP @ 6500'

Sqzd Fusselman Perfs @ 6660' to 6800'

Sqzd Montoya Perfs @ 6950' to 7016'

Sqzd McKee Perfs @ 7314' to 7322'

7-7/8" hole.
5-1/2" csg @ 7375' w/750 sxs cmt.

TD @ 7375'.

WIMBERLEY WN #11

LOCATION: 990' FNL & 1490' FWL (C), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: ARCO OIL AND GAS COMPANY

BLM TRACT NUMBER: 48 **API NUMBER:** 3002525537

SPUD DATE: 6/21/77

KB: 3081' GL: TD: 7375' PBTD: 7332'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			504'	525 sxs cmt, circ
8-5/8"			3350'	700 sxs cmt, (TOC @ 400' - TS)
5-1/2"			7375'	750 sxs cmt, (TOC @ 4390'-TS)

LOGS:

Date	Company	Log Name
7/19/77	Schlumberger	CNL-FDC, BHC, DLL
7/26/77	Schlumberger	CBL
2/91	Schlumberger	NGT-GST

DST's:

1	Blinebry	4985-5100'	Tool failure
2	Blinebry	5985-5100'	GTS 15", Open 1', IF-95, ISI-1048, FF-95 FSI-1067, .26 cfg, 0 BO, 1288 cc DF
3	Montoya	6928-7004'	Open 1', rec 6 BO, 448 GCDM, IF-55, FF 136, ISI-1751, FSI-1683

INITIAL COMPLETION: OPT 97 BO, 72 BW, 199 MCF, Gravity 37.7°, GOR 2052, FTP 65 on 1" choke.

INITIAL COMPLETION DATE: 8/2/77

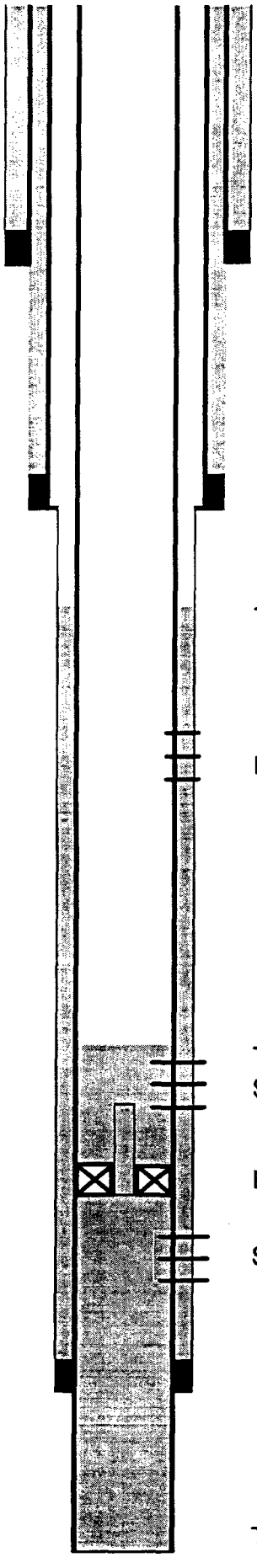
TREATMENTS AND WORKOVERS

7-28-77 Perf McKee 7314-22' (2 jspf), A/250, MXP 1600, MNP 200, AIR 1/2 BPM ISIP 200 1 min vac.
Swb 10 hrs, rec 0 BO, 51 BLW, 157 BFW, no gas IFL 400, FFL 3000'

WIMBERLEY WN #11

8-1-77	Sqzd McKee w/CR @ 7250'
8-2-77	Perf Montoya 6992-98', 7010-16' (2 jspf), A/500 MXP 1900, MNP 900, AIR 1/2 BPM, ISIP 900, 5 MIN vac. Swb 9 BOPH
8-8-77	Perf Fusselman 6767-79' (2 jspf), A/500, MP 3000, MNP 600, AIR 1/2 BPM, ISIP 550, 10 min vac. Swb 9 hrs - 12 BNO & 42 BLW, FFL 6645' Re-A/1000, MXP 800, MNP 400, AIR 3 1/2. Swb 10 hrs, 5 BO, 31 BW, Sqzd 6767-79' w/75 sx, MXP 3000.
8-16-77	Perf Fusselman 6660-64', 70-76', 86-90' (2 jspf), A/500 MXP 800, MNP 400, AIR 1/2 BPM, ISIP 300, 2 min vac. S&F 7 hrs 20 BO, 32 BFW, Sqzd 6660-90 w/100 sx, MXP 3000. Drilled out.
8-26-77	Perf Montoya 6950-56' (2 spf). RBP @ 6980', A/500, MXP 800, AIR 3/4 BPM, ISIP 750, 10 min vac. Swb 16 BOPH. Pull RBP & put on pump. IP 15 BOPD, GOR 2400.
7-79	Montoya 6950-7016' Cum 1.1 MBO, 0.3 MBW. Set CR @ 6900'. Sqz Montoya 6950-7016' w/800 sx, MXP 2000
7-17-79	Perf Fusselman 6662', 65', 68', 73', 79', 83', 89', 6720', 24', 28', 31', 35', 63', 68', 69', 75', 77', 85', 89'. A/7500, MXP 1800, MNP 1100. AIR 3. ISIP 400. 5 min vac. Treated top major, mid minor, btm-none. OPT 97 BO, 72 BW, 199 MCF, Gravity 37.7°, GOR 2052, FTP 65 on 1" choke.
5-18-84	Isolated & sqzd holes in csg 3939'-4303' w/250 sx MXP 1000
9-18-84	Still making 100% wtr. Tested hole-ok. Found wtr in top & mid zone. Oil in btm zone. Btm zone not opened up. Re-acidized w/2500, MXP 3200, MNP 1500, AIR 4 BPM. Swb 3 hrs 7 BO, 43 BLW, FL 3800' (btm zone only)
10-3-84	Pumped all 3 zones - 0 BO, 140 BW. Temp drop
1-2-85	Set CIBP @ 6750' w/3 sx sd on top. Sqzd 6662-6735' w/200 sx. DO cmt to 6900' PBD. Test perfs 6763-89', no fluid entry. Perf 6850', 52', 55', 59', 64', 71', 72', 77'. A/6850-77/2000. Communicated w/upper perfs. A/6763-89' & 6850-77'/2000. DO to 6810'. Perf Fusselman 6760-6800' (2 spf). A/1500. Ran pump - all water
7-12-85	Set CIBP @ 6500'. Perf 5656', 68', 98', 5714', 32', 5883', 98', 5910', 30', 39', 51', 80', 96', 6006', 25'. A/2000. Frac w/60,000 gals, 67,000# sd. 1st day - swb 11 hrs - 11 BO, 147 BLW. MA @ 5662' TAC @ 5628'. SN @ 5627'. Pumped 26 BO + 36 BLW
2-91	Ran logs

WELLBORE SCHEMATIC



South Justis Unit E #19

(ARCO Wimberly WN #3)
660' FNL & 660' FWL (D)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3099'
Spudded 10/13/57
Completed 01/22/58

17-1/2" Hole.
13-3/8" casing @ 527'.
Set w/550 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3400'.
Set w/1987 sxs cmt. Circ.

TOC @ 4195' by TS

Blinebry Perfs 5032' to 5508'.

TOC @ 5525'
Sqzd Tubb/Drinkard Perfs @ 5900' to 5938'

Pkr @ 6980'

Sqzd Fusselman Perfs @ 7004' to 7048'

8-3/4" hole.
7" csg @ 7375' w/850 sxs cmt.

TD @ 8635'.

SOUTH JUSTIS UNIT "E" #19

LOCATION: 660' FNL & 660' FWL (D), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: WIMBERLY WN #3

BLM TRACT NUMBER: 48 **API NUMBER:** 3002511750

SPUD DATE: 10/13/57

KB: 3099' GL: TD: 8635' PBTD:

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"	54.5# & 48#	J-55 & H-40	527'	550 sxs cmt,circ
9-5/8"	36#	J-55	3400'	1987 sxs cmt, circ
7"	23#	N-80	7375'	850 sxs cmt, (TOC @ 4195'-TS)

LOGS:

Date	Company	Log Name
12/25/57	Schlumberger	GR-N, I-ES

DST's:

1	4832-4957'	Paddock	Open 1-1/2', rec 125' HO&GCM, 445' O&GCM, No wtr, IF-150, FF-280, 30" SI 610'
2	4980-5030'	Paddock	GTS-7", 170 MCFD, rec 95' SSW, GCM IF & FF 80, 30" SIP 2180
3	5883-5907'	Drinkard	Open 1-1/2', GTS-3", 210 MCFD, Rec 590' FO, 185' HO&GCM, 590' O&GCM IBHFP-80, FFBHP-180, NC SI"
4	6839-6877'	Fusselman	Open 50", GTS 4-1/2", MTS 15", OTS-18", F 33 BO-30", 172 MCF, rec 90' oil, 30' O&GCM, 30" ISIP 2710 22" FSIP-2730', IF-2265, FF-2520
5	6890-6945'	Fusselman	Open 1' 40", GTS-6", MTS 32', GTS-35" F 459 MCF after 65"
6	6955-7043'	Fusselman	Open 1' 38" GTS-6", MTS-48", GTS-51" F 25 BO-30" 375 MCF, rec 90' oil, 90' O&GCM, 30" ISIP 2840, 30" FSIP 2840
7	7090-7140'	Fusselman	Open 1-1/2', No GTS, NCSIP (wet)
8	8540-8635'	Ellenburger	Open 2' 30", rec 15' M, 550' MCGW w/SI O&G, 4350' XW, IF 450, FF 2320, 30" SIP 3470

SOUTH JUSTIS UNIT "E" #19

9	8590-8635'	Ellenburger	Open 2' 30", rec 270' SGCDM, 270' XW & GCDM, 2790' XW, IBHFP 450, FFP 1680, 30" SIP-3470

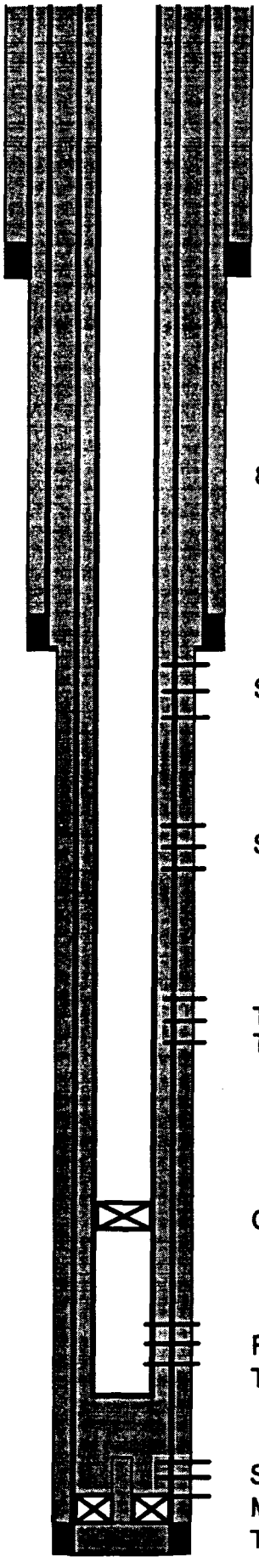
INITIAL COMPLETION: Fuss IP's 660 BO, 0 BW, 350 GOR, 525# FTP, 18/64" choke, Gravity 36.3°
Drinkard IP 336 BO, 724 MCF, 2160 GOR, 840 FTP, 16/64" choke, Gravity 38.1°

INITIAL COMPLETION DATE: 1/22/58

TREATMENTS AND WORKOVERS

	Perf Fusselman 7004-58' (4 spf), A/1000. Perf Drinkard 5900-38' (4 spf), A/1000. Model "D" @ 6980' Dual
4-68	Squeezed Fusselman & Tubb/Drinkard (tbg parted - CO to 5525') Perf Blinebry 5200', 02', 16', 65', 73', 75', 92', 5324', 29', 51', 60', 5429', 37', 62', 64', 67', 85', 5508'. A/2500. SOF/30/30.
5-76	A/5200-5508/4000. Perf 5148', 57', 60', 64', 68', 81', 5184'. A/1000 SWF/72/82/15-100 mesh
1-80	Perf 5032', 39', 43', 55', 62', 77', 85', 97', 5109', 21', 27'. A/5032-5127/2500.

WELLBORE SCHEMATIC



South Justis Unit E #191

(ARCO Wimberly WN #6)
660' FNL & 990' FWL (D)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3093'
Spudded 12/02/58
Completed 01/24/59

17-1/2" Hole.
13 3/8" casing @ 535'.
Set w/550 sxs cmt. Circ.

TOC @ 2300'.

Perf 7" @ 2800' & 3410'.
Cmt'd w/650 sxs. Circ.

8 Perfs @ 2800'. Circ Cmt from 2800'

12-1/4" Hole.
9-5/8" casing @ 3375'.
Set w/1250 sxs cmt. Circ.

Sqzd Paddock Perfs 4860' to 4990'.

Sqzd Blinebry Perfs @ 5408' to 5458'

Tubb/Drinkard Perfs @ 5670' to 5971'
TA'd 02/77

CIBP @ 6500'

6-1/4" Hole.
5-1/2" Inner String @ 6817'.
Set w/200 sxs cmt.

Fusselman Perfs @ 6709' to 6821'
TA'd 09/90

Sqzd Fusselman Perfs @ 6836' to 6923'
Model D Packer @ 6950'.

8-3/4" hole.
7" csg @ 7090' w/720 sxs cmt.

TD @ 7090'.

SOUTH JUSTIS UNIT "E" #191

LOCATION: 660' FNL & 990' FWL (D), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: WIMBERLY WN #6

BLM TRACT NUMBER: 48 **API NUMBER:** 3002511753

SPUD DATE: 12/2/58

KB: 3093' GL: TD: 7090' PBTD: 6500'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"	48#	H-40	535'	550 sxs cmt, circ
9-5/8"	36#	J-55	3375'	3375 sxs cmt, circ
7"	23#	J-55/N-80	7090'	1370 sxs cmt, circ
5-1/2" Lnr	16.87#	ABJ	6817'	200 sxs cmt, (TOC @ 2300')

LOGS:

Date	Company	Log Name
1/9/59	Schlumberger	GR-N, ML, IES

DST's:

1	Blinebry	5405-70'	Op 2', strong blow imminent., GTS 14" Rec 600' fluid-490' OGCM, 100' F.O. 30" ISIP 2485, 30" FSIP 2160, IFP 145, FFP 275, HP 2870
2	Montoya	7075-85'	Open 30", No blow, ISIP 0, IFP 0, FFP 0, HP 3869, Rec 10' DM
3	Montoya	7072-90'	TO w/good blow, no GTS. Acid test ran w/60 gal 15% MCA. Rec 50' acid wtr, 100' acid wtr w/mud, 250' sulphur wtr

INITIAL COMPLETION:

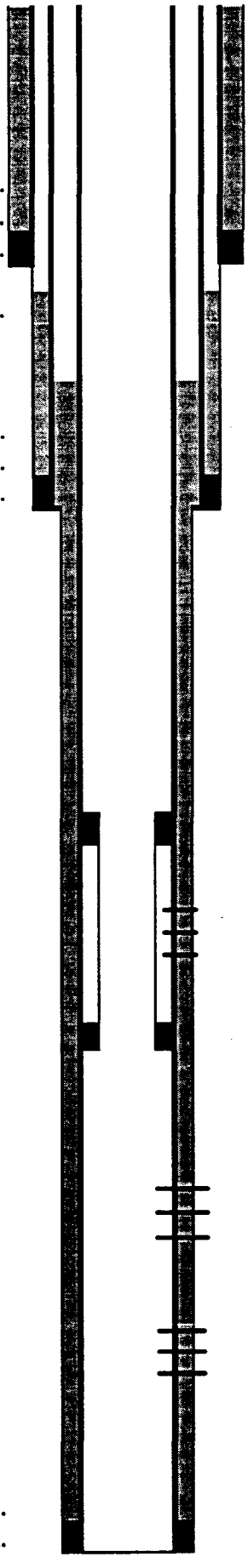
INITIAL COMPLETION DATE: 1/24/59

SOUTH JUSTIS UNIT "E" #191

TREATMENTS AND WORKOVERS

	Perf Blinebry - 5411', 25', 56', 73', 78', (6 spf), A/10,000 F 222 BOPD thru 20/64" choke, High GOR.
10-61	Perf 5560' & sqz/50 sx - gas. Perf 5474-78' (2 spf), A/500 Perf 4990 & 4860' blk sqz, 100 sx. Perf 5408-14', 24-32', 52-58' (Blinebry) (2 spf). Frac, A/500/10k gal/46k#. Model "D" @ 5195'. Perf Paddock 4900-20', A/2000 dual. OPT 132 BOPD; Blinebry 44 BOPD, GOR 871
6-62	A/Paddock/500
5-68	Sqz Paddock/150 sxs. Sqz Blinebry. Perf Fusselman 6836', 37', 38', 39', 66', 67', 68', 69', 6902', 03', 07', 08', 09', 10', 14', 17', 20', 21', 22', & 23. A/2000, F 186 BOPD & 6 BW, GOR 476
6-68	Perf'd Drinkard at 5754', 56', 71', 76', 5853', 5908', 12', 15', 18', 22', 24', 57', 69' & 71'. A/2000 gals, SOF 30/30. OPT 162 BOPD, 4 BW, GOR 1837, Dual w/Fusselman.
11-75	Pushed Model "D" to 6980'. Sqz Fusselman 6836-6923'/250 sx. Perf Fusselman 6709', 11', 16', 44', 46', 48', 55', 61', 64', 92', 97', 6819', 21'. A/500. F 321 BOPD.
4-76	Csg leak 5056-5489' sqz/250 sx. Perf Tubb 5670', 79', 89', 98', 5705', 18', 24', 32', 42', 48', 89', 93', 5803', 19', 24', 43'.
2-77	TA Tubb/Drinkard
12-78	Csg leak 357-389. Circ cmt to surf f/2800. Ran 5-1/2" 16.87" ABJ csg. Set @ 6817'. TOC @ 2300'. Perf 6707', 09', 11', 16', 44', 46', 48', 55', 61', 64'. A/500
9-13-90	POH & LD tbg, set CIBP @ 6500', Fusselman TA'd.

WELLBORE SCHEMATIC



South Justis Unit E #201

(ARCO Wimberly WN #4)
1980' FNL & 990' FWL (E)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3087'
Spudded 01/14/58
Completed 03/11/58

17-1/2" Hole.
13-3/8" casing @ 553'.
Set w/500 sxs cmt. Circ.

TOC @ 745' by TS.

TOC @ 2950' by TS

12-1/4" Hole.
9-5/8" casing @ 3400'.
Set w/2000 sxs cmt.

Scab Liner 5" @ 5852' to 5962'

Drinkard Perfs @ 5884' to 5914'

Fusselman Perfs @ 6724' to 6794'

Sqzd Fusselman Perfs @ 6840' to 6950'

8-3/4" hole.
7" csg @ 7242' w/998 sxs cmt.

TD @ 7242'.

SOUTH JUSTIS UNIT "E" #201

LOCATION: 1980' FNL & 990' FWL (E), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: WIMBERLY WN #4

BLM TRACT NUMBER: 48 **API NUMBER:** 3002511751

SPUD DATE: 1/14/58

KB: 3087' GL: 3078' TD: 7242' PBTD:

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"	48#	H-40	553'	500 sxs cmt, circ
9-5/8"	36#	J-55	3400'	2000 sxs cmt, (TOC @ 745'-TS)
7"	23/26#	J-55/N-80	7242'	998 sxs cmt, (TOC @ 2950')
5" Liner			5852-5962'	

LOGS:

Date	Company	Log Name
3/6/58	Schlumberger	GR-N, I-ES, ML
3/9/58	Schlumberger	GR-N

DST's:

1	5000-5050'	Blinebry	GTS 2", 938 IF, 260 FF, 90" - 670 MCF 25 FF, Rec 150' O&GCM, 30" ISIP 2322 IF 247, FF 170, 30" FSIP-2245#
2	5190-5280'	Blinebry	Op 1-1/2' GTS 11", TSTM. Rec 2700' FO, 30' DM, 30" ISIP-2380, FSIP-1435, IF-260, FF 530
3	5829-5922'	Drinkard	Op 1' GTS 3", M 28", Oil 29', 600 MCF, Rec. 50' O&GCM, IF 335#, FF 675#, 30" ISIP-2665, FSIP-2580
4	6740-6826'		Op 1' 35" GTS 4", M-11", O-15", F 82 BO/HR, IBHFP-1222, FBH FP-2120, 30" ISIP-2798, 30" FSIP-2745, Rec 10" OCM

SOUTH JUSTIS UNIT "E" #201

5	6840-6940'	Op 1-1/2' GTS 4", M-28", Oil-33", F 31 BO, 694 MCF, Rec 184' oil, 0 Wtr, IF-693#, FF-1887, 30" ISIP-2798, 30" FSIP-2735#
6	7000-7090'	Op 30" GTS 27" TSTM, Rec 150' SOC SW, IF-315, FF-2645', 30" ISIP-2895, 30" FSIP-2885
7	7173-7221'	Op 2' Rec 60' SW, IFP-65, FF-970, ISIP 2755#, FSIP-1465#

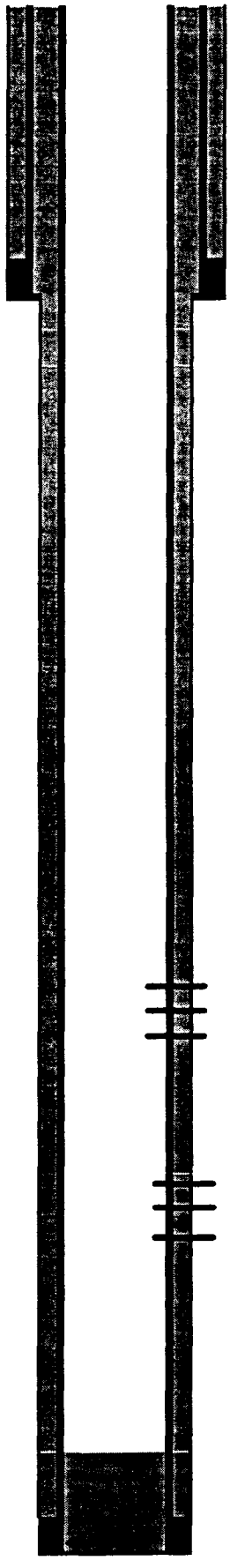
INITIAL COMPLETION: OPT - Fusselman 1411 BOPD, FTP 330#, 32/64" choke. Drinkard 1356 BOPD. On gas lift in 61, FTP 420#, 36/64" choke

INITIAL COMPLETION DATE: 3/11/58

TREATMENTS AND WORKOVERS

	Perf Fusselman 6840-6950' A/1000. Perf Drinkard 5884-5914' (4 spf) A/1000.
3-11-58	A/5884' - 5914' - 24 BA
1961	Fished tbg
5-65	Squeeze Fusselman (wtr) Perf Fusselman 6794'. A/100. Perf Fuss 6724', 6738-41', 49-60', 77-86', A/1000. F 168 BOPD. TP 300#, 11/64" ck
5-67	TA'd T/D. Ran 5" 11# J-55 scab liner 5852-5962'. Put Fusselman on rod pump.

WELLBORE SCHEMATIC



South Justis Unit E #20

(ARCO Wimberly WN #9)
1980' FNL & 330' FWL (E)
Sec. 24, T-25S, R-37E, Lea Co., NM
GL 3082'
Spudded 02/08/65
Completed 03/02/65

11" hole.
8-5/8" casing @ 1055'.
Set w/490 sxs cmt. Circ.

Sqzd Blinebry perfs @ 5095' to 5188'.

Blinebry Perfs @ 5207' to 5527'.

7-7/8" hole.
4-1/2" csg @ 5591'.
Set w/1940 sxs cmt. Circ.

PBD @ 5548'.

TD @ 5600'.

SOUTH JUSTIS UNIT "E" #20

LOCATION: 1980' FNL & 330' FWL (E), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: WIMBERLY WN #9

BLM TRACT NUMBER: 48 **API NUMBER:** 3002521092

SPUD DATE: 2/8/65

KB: GL: 3082' TD: 5600' PBTD: 5548'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"	24#		1055'	490 sxs cmt, circ
4-1/2"	9.5#		5591'	1940 sxs cmt, circ

LOGS:

Date	Company	Log Name
2/20/65	Welex	Sonic, Guard, Forxo

DST's:

INITIAL COMPLETION: IP Blinebry (5334-5527'), 44 BOPD, 1.397 MCF - 37.4° API, FTP 425# on 16/64" choke, 0 BW, GOR 970

INITIAL COMPLETION DATE: 3/2/65

TREATMENTS AND WORKOVERS

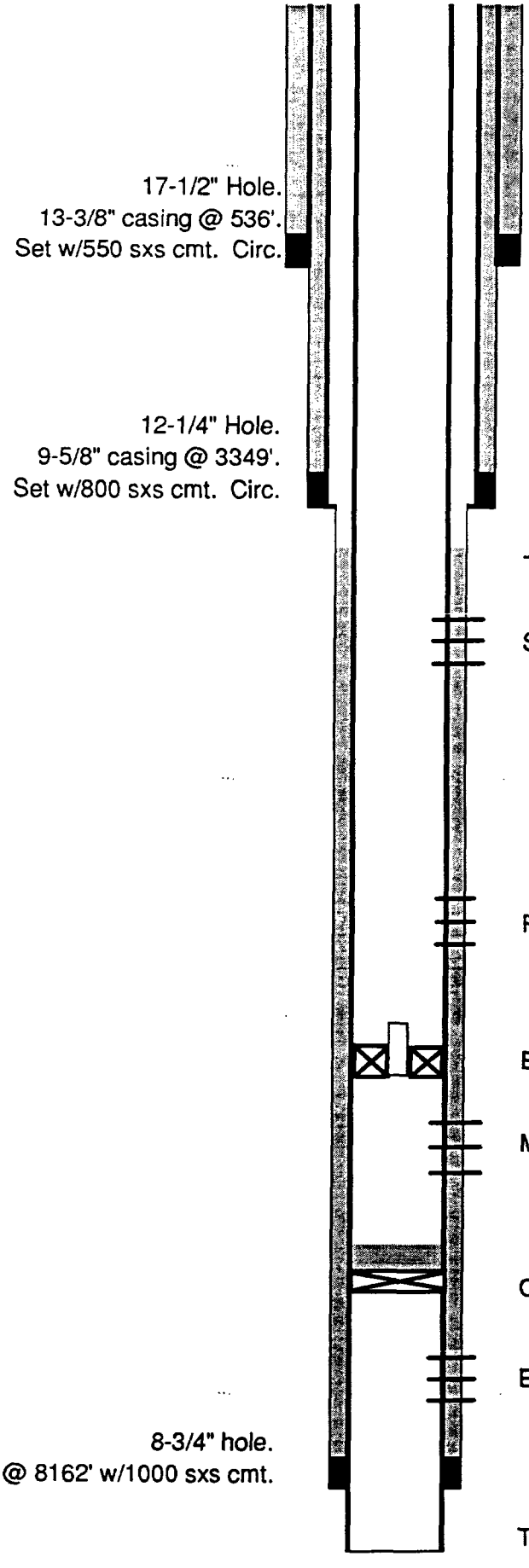
3-65 Perf Blinebry 5334-5527', Treated w/1.5 Kgal BDA, 20 Kgal ref oil, 40K# sand

3-69 Perf Blinebry 5095-5283', acidize w/2 Kgal, SWF w/30 Kgal brine and 30K# sand, acidize 5095-5126' w/250 gal, sqzd 5095-5188' w/350 sxs

2-78 A/1000 gals

4-88 CO to 5519', Add Blinebry perfs @ 5074', 5088', 5113', 5130', 5150' 79', 87', 5208', 37', 44', 83'. A/5308-5515' w/2500 gals Acidized 5074-5283' w/3000 gals, IP P 5 BO, 6 MCF, 8 BW

WELLBORE SCHEMATIC



A. B. Coates C #10

Texaco
1980' FNL & 2080' FWL (F)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3088'
Spudded 12/04/57
Completed 01/27/57

17-1/2" Hole.
13-3/8" casing @ 536'.
Set w/550 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3349'.
Set w/800 sxs cmt. Circ.

TOC @ 4100' by TS

Sqzd Blinebry Perfs @ 5242' to 5445'

Fusselman Perfs @ 6671' to 6750'

Backer Model D Packer @ 6800'

Montoya Perfs @ 6840' to 6912'.

CIBP @ 8060' w/2 sxs cmt

Ellenburger Perfs @ 8162' to 8210'

8-3/4" hole.
7" csg @ 8162' w/1000 sxs cmt.

TD @ 8210' Open Hole.

A. B. COATES "C" #10

LOCATION: 1980' FNL & 2080' FWL (F), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: TEXACO

BLM TRACT NUMBER: 12 **API NUMBER:** 3002511732

SPUD DATE: 12/4/57

KB: 3088' GL: TD: 8210' PBTD:

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			536'	550 sxs cmt
9-5/8"			3349'	800 sxs cmt, circ
7"	23#		8162'	1000 sx cmt, (TOC @ 4100' - TS)

LOGS:

Date	Company	Log Name
1/23/58	Schlumberger	GR-N, IES, ML

DST's:

INITIAL COMPLETION: IP Ellenburger (OH 8162-8210'), F 1344 BO, TP 775#, GOR 1239

INITIAL COMPLETION DATE: 1/27/57

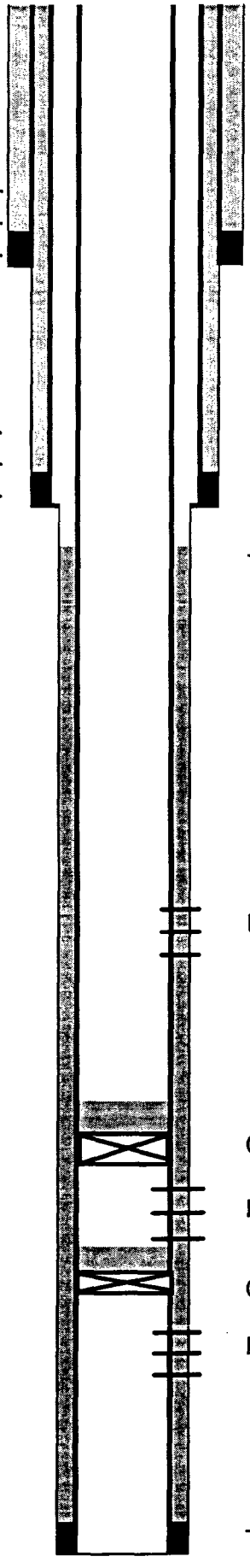
TREATMENTS AND WORKOVERS

9-59	Recomplete as Dual Ellenburger - Montoya, 6840-6912' P 79 BO, A/500
7-60	Install gas lift - Montoya
1-61	Install gas lift - Ellenburger
4-61	Plug off water & perf add. Ellenburger

A. B. COATES "C" #10

1-65	Plug off Ellenburger and Recomplete to Blinebry, CIBP 8050, Blinebry: 5242'-5445' A/2000, 67 BO/4 BW/F Perfs: 5242', 49', 55', 63', 90', 96', 5319', 67', 86', 99' 5437', 45' F/24,000 gals 43,000# sd
8-66	Install pumping equipment - Montoya
2-71	Repair communication Blinebry; 3BO/19 BW/F
7-76	Recomplete as Fusselman Blinebry dual Blinebry; dead
10-79	Blinebry; 1 BO/2BW/P
11-82	Squeeze off Blinebry perfs, perforate additional Fusselman

WELLBORE SCHEMATIC



A. B. Coates C #11

Texaco
1980' FNL & 1650' FWL (F)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3087'
Spudded 04/11/58
Completed 05/28/58

17-1/2" Hole.
13-3/8" casing @ 532'.
Set w/550 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3349'.
Set w/1300 sxs cmt. Circ.

TOC @ 3560' by TS

Drinkard Perfs @ 5749' to 6041'

CIBP @ 6200' w/35' cmt. cap

Fusselman Perfs @ 6717' to 6757'

CIBP @ 6776' w/cmt to 6771'

Fusselman Perfs @ 6793' to 6898'

8-3/4" hole.
7" csg @ 7099' w/600 sxs cmt.

TD @ 7100'.

A. B. COATES "C" #11

LOCATION: 1980' FNL & 1650' FWL (F), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: TEXACO

BLM TRACT NUMBER: 12 **API NUMBER:** 3002511733

SPUD DATE: 4/11/58

KB: 3087' GL: TD: 7100' PBTD: 6165'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"	48/36#		532'	550 sxs cmt, circ
9-5/8"	36/32.6#		3349'	1300 sxs cmt, circ
7"	23#	J-55	7099'	600 sxs cmt, (TOC @ 3560' - TS)

LOGS:

Date	Company	Log Name
5/21/58	Schlumberger	GR-N, IES, ML, Sonic
5/23/58	Welex	GR-N

DST's:

1	5850-5925'	Paddock	Open 3-1/2 hr, gas 6 min, mud 26 min, oil 27 min, pits 3 min, F 175 BO 3 hr, 1" ck, grav. 37.2; rec full string oil, FP 1320-1660, SI 30"/2540
2	6590-6720'		Op 2 hrs, gas 8 min, rec 200' HGCM, FP 100-220, SI 30"/1680
3	6720-6801'		Open 2-1/2 hrs, gas 19 min, RO 4-5 bbl HGCM, red 50 gal HGOCM, FP 690-920, SI 30"/2140
4	6770-6935'		Open 2-1/2 hrs, gas 15 min, RO 250' GCM, 5000' GCO, RBS 150' oil, FP 760-1170, SI 30"/2290
5	6935-7030'		Open 4 hr, rec 15' mud, 90' HGC/VSOCM FP 95-103, SI 30"/340
6	7030-7101'		Open 4 hr, rec 60' mud, SS/O, FP 90,

A. B. COATES "C" #11

		SI 30"/155
7	5890-5930'	Open 2 hr 15 min, gas 9 min, mud 1 hr, 5 min, oil 1 hr 7 min, pits 8 min, F 27-1/2 BO 1 hr, 1" THC, GOR 7861, RO 5000' oil, RBS 60' HGCO, FP 340-700, SI 30"/2360

INITIAL COMPLETION: IP: Drinkard Zone - Flwd 510 BOPD (149/7 hrs) 16/64" ck, csg perfs160/5890-5930, A/1000, TP 325, CP 250, GOR 940, Gravity 37.2° cptd 5-28-58

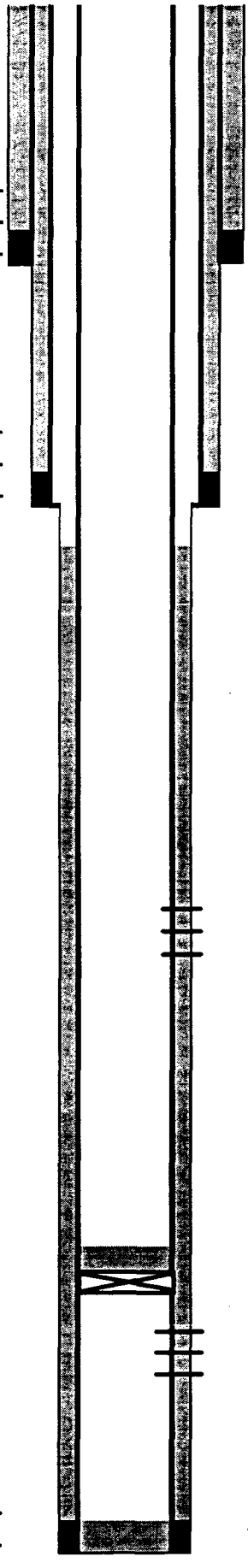
IP: Fusselman Zone - Flwd 119 BOPD (35/17 hr) 14/64" ck, csg perfs: 148/6793-6830', 120/6868-98', A/1000, TP 300, CP pkr, GOR 645° cptd 5-28-58

INITIAL COMPLETION DATE: 5/28/58

TREATMENTS AND WORKOVERS

2-68	Install P.E. - Tubb/Drinkard zone 74BO/191 MCF/16 BW/P
5-71	Acidize Fusselman Add Tubb/Drinkard perfs 5749', 52', 76', 89', 93', 5832', 33', 54', 89', 90' 91', 5993' 97', 6006', 08', 10', 11', 12', 18', 23', 34', 36', 38', 41' Acidized Tubb/Drinkard in 2 sections, A/4500 total, 44 BO/? MCF/75 BW/P
12-81	Frac Tubb/Drinkard 5749-6041', F/38/44, 20 BO/? MCF/73 BW/P
5-84	Plug back Fusselman (CIBP 6776', Perfs 6717', 18', 20', 21', 51', 55', 56', 57', A/4000
8-85	P&A Fusselman. Now single Tubb/Drinkard well.

WELLBORE SCHEMATIC



South Justis Unit F #20

(Texaco A. B. Coates C #28)
1795' FNL & 1795' FWL (F)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3090'
Spudded 09/25/68
Completed 12/05/68

17-1/2" Hole.
13-3/8" casing @ 529'.
Set w/525 sxs cmt. Circ.

11" Hole.
8-5/8" casing @ 3349'.
Set w/2010 sxs cmt. Circ.

TOC @ 3200' by TS

Blinebry Perfs @ 5361' to 5564'

CIBP @ 7730' w/10' cmt

McKee Perfs @ 7753' to 7880'

7-7/8" hole.
5-1/2" csg @ 7911' w/908 sxs cmt.

PBD @ 7900'
TD @ 7912'.

SOUTH JUSTIS UNIT "F" #20

LOCATION: 1795' FNL & 1795' FWL (F), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: TEXACO

FORMER WELL NAME: A. B. COATES "C" #28

BLM TRACT NUMBER: 12 **API NUMBER:** 3002522742

SPUD DATE: 9/25/68

KB: 3090' GL: 3078' TD: 7912' PBTD: +7720'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"	48#	H-40	529'	525 sxs cmt, circ
8-5/8"	32#	J-55	3349'	2010 sxs cmt, circ
5-1/2"	15.5/17#	J-55	7911'	908 sxs cmt, (TOC @ 3200' by TS)

LOGS:

Date	Company	Log Name
10/1/71	Dresser Atlas	Sonic, LL

DST's:

INITIAL COMPLETION: McKee-7753-7880', Injection well

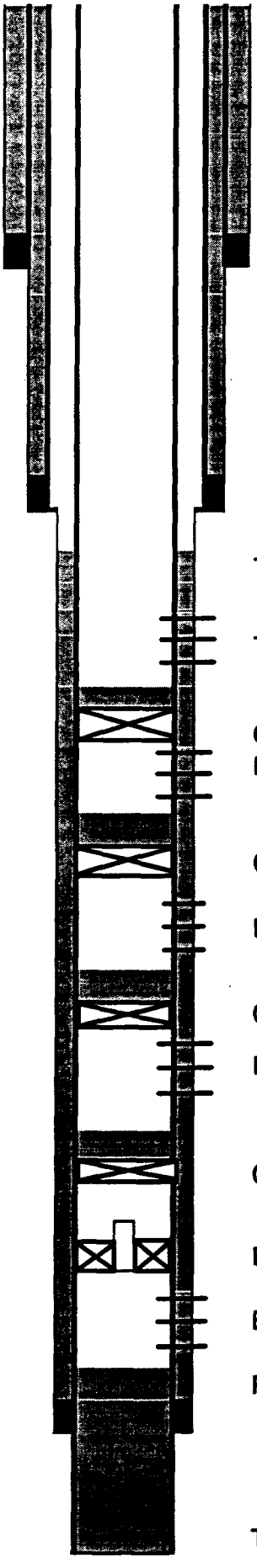
INITIAL COMPLETION DATE: 12/5/68

TREATMENTS AND WORKOVERS

10-68 McKee-7753-7880', Injection well

10-71 Plug off McKee
Recomplete in Blinebry 5361-5564' A/2500, F/50/65
113 BO/275 BW/GOR 2202/F

WELLBORE SCHEMATIC



South Justis Unit G #20

(Texaco A. B. Coates C #7)
1980' FNL & 1980' FEL (G)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3080'
Spudded 06/23/57
Completed 08/20/57

17-1/2" Hole.
13-3/8" casing @ 535'.
Set w/525 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3384'.
Set w/1500 sxs cmt. Circ.

TOC @ 3820' by TS

Tubb Perfs @ 5608' to 5812'

CIBP @ 6460' w/10' cmt on top
Montoya Perfs @ 6533' to 6859'

CIBP @ 6900' w/10' cmt on top

Montoya Perfs @ 6910' to 6920'

CIBP @ 7275' w/10' cmt on top

McKee Perfs @ 7315' to 7440'.

CIBP @ 7735' w/10' cmt on top

Baker "D" Packer @ 7750'

Ellenburger Perfs @ 7814' to 7835'.

PBD @ 7875'.

8-3/4" hole.
7" csg @ 7937' w/850 sxs cmt.

TD @ 8065'.

SOUTH JUSTIS UNIT "G" #20

LOCATION: 1980' FNL & 1980' FEL (G), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: TEXACO

FORMER WELL NAME: A. B. COATES "C" #7

BLM TRACT NUMBER: 12 **API NUMBER:** 3002511737

SPUD DATE: 6/23/57

KB: 3080' GL: TD: 8065' PBTD: 6425'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"	36#		535'	525 sxs cmt, circ
9-5/8"	32.3#		3384'	1500 sxs cmt, circ
7"	23#		7937'	850 sx cmt, (TOC @ 3820' - TS)

LOGS:

Date	Company	Log Name
8/19/57	Schlumberger	GR-N

DST's:

1	5880-5940'	Open 2' 23", F 81 BO - 2 hrs, FP 970, 1" SIP-2315

INITIAL COMPLETION: IP Ellenburger (7937-8065'), F 1650 BO, TP 900#

INITIAL COMPLETION DATE: 8/20/57

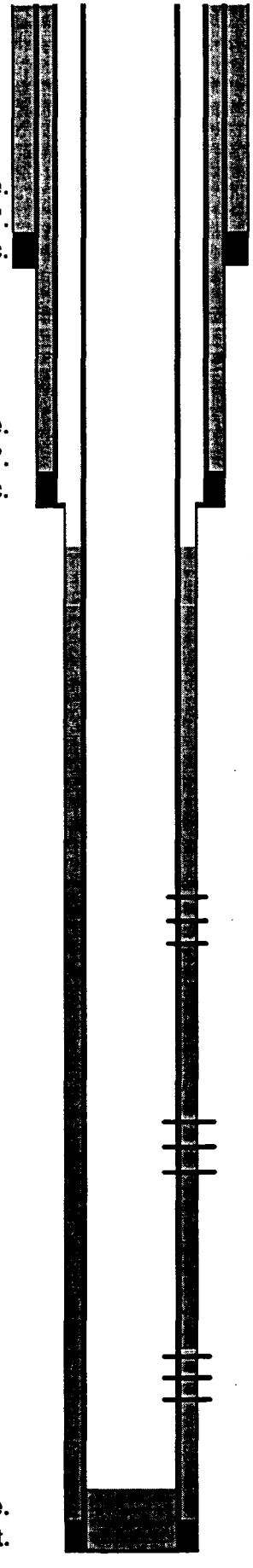
TREATMENTS AND WORKOVERS

5-59	Recomplete as dual Ellenburger-McKee
8-65	Plugback and acidize Ellenburger
5-67	Install pumping equipment Ellenburger

SOUTH JUSTIS UNIT "G" #20

9-68	Plugback Ellenburger
4-71	Recomplete to Montoya - 6768', 69', 70', 74', 76', 89', 97', 99', 6801', 08', 10', 18', 20', 25', 43', 47', 51', 56', 59', A/3000
3-72	Add. perf and acidize Montoya w/2500 gals
3-73	Add. perf and frac Montoya
4-75	Install pumping equip Montoya
3-79	Add. perf, acidize, frac Montoya 6533-6692', A/4000 gals
12-83	Recomplete to Tubb, 5608-5812', A/5000, F/76/136, 25BO/22BW/P

WELLBORE SCHEMATIC



A. B. Coates C #14

Texaco
1650' FNL & 2310' FEL (G)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3081'
Spudded 06/09/58
Completed 07/19/58

17-1/2" Hole.
13-3/8" casing @ 537'.
Set w/614 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3318'.
Set w/~~1300~~ 600 sxs cmt. Circ.

TOC @ 3610' by TS

Blinebry Perfs @ 5255' to 5413'

Drinkard Perfs @ 5876' to 5930'.

Montoya Perfs @ 6914' to 6930'

8-3/4" hole.
7" csg @ 6973' w/600 sxs cmt.

PBD @ 6965'.
TD @ 6980'.

A. B. COATES "C" #14

LOCATION: 1650' FNL & 2310' FEL (G), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: TEXACO

FORMER WELL NAME:

BLM TRACT NUMBER: 12 **API NUMBER:** 3002511736

SPUD DATE: 6/9/58

KB: 3081' GL: TD: 6980' PBTD: 6965'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			537'	614 sxs cmt, circ
9-5/8"			3318'	1300 sxs cmt, circ
7"			6973'	600 sxs cmt, (TOC @ 3610' - TS)

LOGS:

Date	Company	Log Name
7/14/59	Schlumberger	GR-N, IES

DST's:

1	5860-5945'	Open 3', G 5", m 49", oil 51", pits 9", F 49-1/2 BO 2 hr, GOR 236, RO 30 BO, RBS 38" oil, FP 775-930 SI 30"/2745
2	6390-6560'	Open 2, G 10" RO 8 bbl mud, RBS 120' GCM, FP 230 SI 30"/2095
3	6615-30'	Rec 15' fx-chty dol, ppp, scat st. ss/gas
4	6500-6760'	Open 24", G 4", M 7", oil 11", pits 13", F gas 20,000 MCF & spray oil, RO 5 BO, RBS 45' oil, FP 2585, SI 30"/2646
5	6770-6980'	Open 2' 28", G 6", M 16", oil 23", F 33 BO 30", F 36 BO 30", F 34 BO 30", F 34 BO 30", RO 49.5 BO + 60' OGCM, FP 2085-2200', SI 30"/2650

A. B. COATES "C" #14

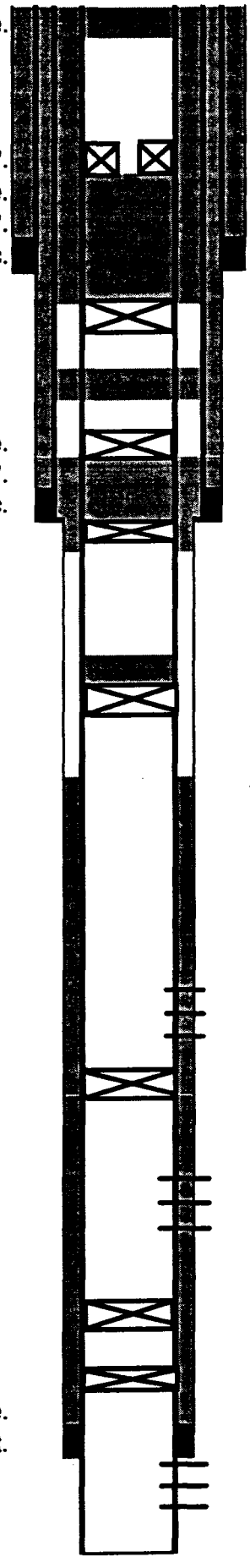
INITIAL COMPLETION: IP Montoya (6840-6880')
Drinkard (5876-5930'), A/1000, 88 BO/67 MCF/F

INITIAL COMPLETION DATE: 11/14/57

TREATMENTS AND WORKOVERS

6-64	Triple - Montoya 6914-6930' Tubb/Drinkard 5885-5930', A/1500, F/20/20, No test Blinebry 5255-5413', A/1500, F/24/48, 66 BO/300 MCF/60 BW
6-71	Repair communication and SI Tubb/Drinkard
2-75	Downhole commingle Blinebry, Tubb/Drinkard and Montoya
2-75	Install PE, Total Test = 43°/176 MCF/28W/P

WELLBORE SCHEMATIC



Cement Plug (10 sxs) @ Surface.

Cement Retainer @ 450'.
17-1/2" Hole.
13-3/8" casing @ 516'.
Set w/550 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3316'.
Set w/1100 sxs cmt. Circ.

8-3/4" hole.
7" csg @ 7909' w/750 sxs cmt.

A. B. Coates C #17

Texaco
2280' FNL & 960' FEL (H)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3083'
Spudded 09/09/58
Completed 12/17/58
P&A'd 09/08/87

CIBP @ 575'

Cement Plug @ 2160' to 2660'

Cmt Retainer @ 3325'

CIBP @ 3400'

Cement Plug @ 5052' to 5152'
Cement Retainer @ 5152'

TOC @ 5500' by TS

McKee Perfs @ 7210' to 7320'

CIBP @ 7575' w/35' cmt.

Sqzd Ellenburger Perfs 7625' to 7640'

Cement Retainer @ 7735'

Cement Retainer 7849'

Ellenburger Perfs @ 7909' to 7950'

TD @ 7950'.

A. B. COATES "C" #17

LOCATION: 2280' FNL & 960' FEL (H), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: TEXACO

BLM TRACT NUMBER: 12 **API NUMBER:** 3002511739

SPUD DATE: 9/9/58

KB: 3083' GL: TD: 7950' PBTD:

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			516'	550 sxs cmt, circ
9-5/8"			3316'	1100 sxs cmt, circ
7"			7909'	750 sxs cmt, (TOC @ 5500' - TS)

LOGS:

Date	Company	Log Name
10/22/58	Schlumberger	GR-N, IES, ML

DST's:

1	5940-6000'	Paddock	Op 3 hr, gas 20 min, RO 500' OGCM, RBS 30' oil, FP 128-329, SI 30"/1120
2	6730-6884'		(Sf) Op 1 hr, rec 140' mud, FP 235-235, SI 30"/480
3	7100-7390'		Op 4 hr, gas 3 min, mud 46 min, oil 54 min, pits 6 min, F 82 BO 3 hr, GOR 814, Gravity 42, RO 4000' oil, RBS 59' oil, 30" ISIP/3035, FP 1125-808, SI 30"/1922
4	7425-7505'		Op 3-1/2 hr, RO 90' SGCM, 450' gas, RBS 30' SOGCM, FP 160-242, SI 30"/455
5	7690-7828'		(Oe) Op 2-1/2', G 7", M 46", oil 55', pits 5", F 51 BO 1-1/2 hr; GOR 1190, RO 4000', oil RBS 60' oil, no wtr; FP 645-1038; SI 30"/3020
6	7180-7394'		Op 3 hr, G 5 min, pkr failed; rec. 3500' oil (McKee) + 1200' mud; FP 330-1670 had comm 7274-93'; swbd & flwd 103 BLO 12 hr 3/4" ck, 141 MCF; F 15 BOPH 5 hr; 3/4" ck, F 96 BO 13 hr 20/64" ck

A. B. COATES "C" #17

INITIAL COMPLETION: IP Dual Ellenburger OH (7909-7950'), F 1200 BO
McKee 7210-7320', F 78 BOPD

INITIAL COMPLETION DATE: 12/17/58

TREATMENTS AND WORKOVERS

6-62	Install P.E. McKee
12-67	Install P.E. Ellenburger
9-68	Plugback Ellenburger
9-71	Squeeze off McKee Single Comp - Ellenburger
1-72	Plugback Ellenburger, Sqz 7764-82', Perfs 7625-40', A/1000
6-84	Set CIBP @ 7575' w/35' cmt. Ran casing inspection log & found bad casing 2270-2650' & 3980-5150'. Well TA'd.
9-8-87	Well P&A'd

WELLBORE SCHEMATIC

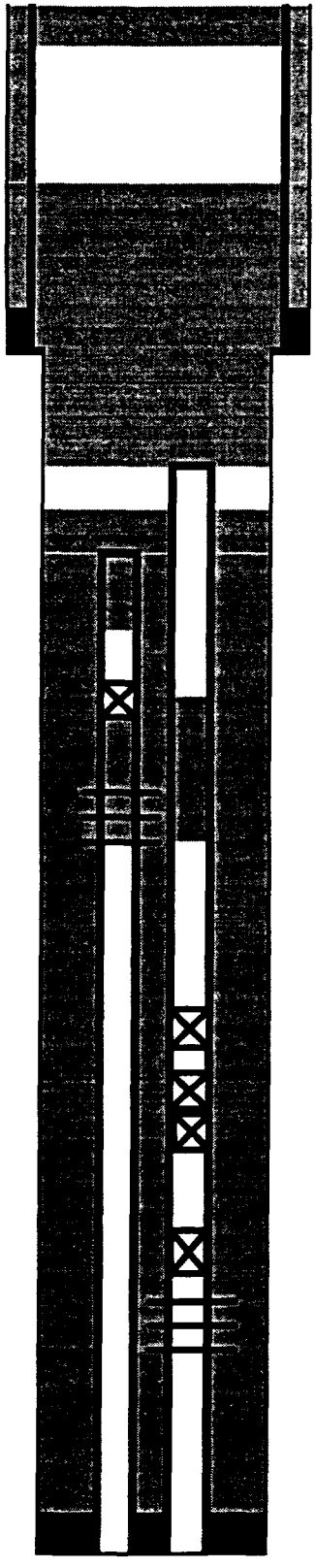
Cmt Plug (100 sxs) Surface to 100'.

Cmt Plug (180 sxs 765' to 1015'.
12-1/4" Hole.
9-5/8" casing @ 892'
Set w/445 sxs cmt. Circ.

Cmt Plug (220 sxs) 1497' to 1747'
2-7/8" Cut @ 1685'

Cmt Retainer @ 5060'

8-3/4" hole.
2-7/8" csg @ 6007' w/880 sxs cmt.



A. B. Coates C #24

Texaco
1980' FNL & 990' FEL (H)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3081'
Spudded 10/16/62
Completed 12/10/62
P&A'd 01/85

TOC @ 1002' by TS
2-7/8" parted @ 1005'

Blinebry perfs 5218' to 5476'.

Plug @ 5555'

Plug @ 5578'
Plug @ 5580'

Baker SN @ 5959'

Tubb/Drinkard Perfs 5729' to 5984'.

TD @ 6010'.

A. B. COATES "C" #24

LOCATION: 1980' FNL & 990' FEL (H), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: TEXACO

BLM TRACT NUMBER: 12 **API NUMBER:** 3002511719

SPUD DATE: 10/16/62

KB: 3081' GL: TD: 6010' PBTD:

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"	36#	J-55	892'	445 sxs cmt, circ
2-7/8"	6.5#	J-55	1685'	880 sxs cmt, (TOC @ 1002'-TS)
2-7/8"	6.5#	J-55	6007'	880 sxs cmt, (TOC @ 1002'-TS)

LOGS:

Date	Company	Log Name
11/25/62	Schlumberger	Sonic, LL

DST's:

INITIAL COMPLETION: IP Blinebry (5218-5476'), A/1000, F/14/26, 52 BO/0 BW/GOR 589/F
Tubb/Drinkard 5729-5984', A/6000, 58 BO/0 BW/GOR 859/F

INITIAL COMPLETION DATE: 12/10/62

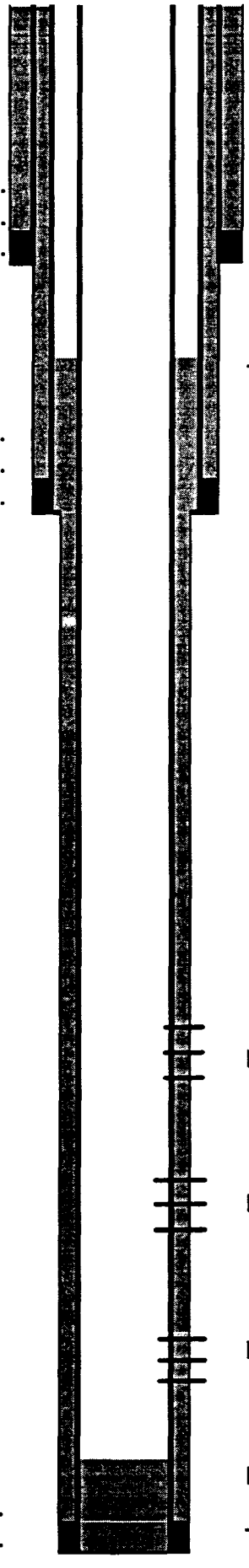
TREATMENTS AND WORKOVERS

10-66 Install P.E. Tubb/Drinkard 27 BO/0 BW/P

5-70 Set plugs @ 5578' and 5555'. Tubb Drinkard Temporarily Abandoned - Communicated w/Blinebry

1-85 Set CR @ 5060' and sqzd Blinebry 5218-5476'. Cut 2-7/8" tbg @ 1685' and pulled. Set 40 sxs cmt plugs @ 1714-74'. Set 180 sxs cmt plugs @ 1497-1747' and 765-1015'. Set 100 sxs cmt plug @ 0-100'. P&A'd 1-7-85

WELLBORE SCHEMATIC



A. B. Coates C #29

Texaco
1650' FNL & 330' FEL (H)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3082'
Spudded 08/17/72
Completed 10/10/72

17-1/2" Hole.
13-3/8" casing @ 560'.
Set w/580 sxs cmt. Circ.

TOC @ 3000' by TS

12-1/4" Hole.
8-5/8" casing @ 3443'.
Set w/1700 sxs cmt. Circ.

Ellenburger Perfs @ 7526' to 7555'

Ellenburger Perfs 7631' to 7686'

Ellenburger Perfs @ 7731' to 7790'

PBD @ 7948'

7-7/8" hole.
5-1/2" csg @ 8100' w/1140 sxs cmt.

TD @ 8102'.

A. B. COATES "C" #29

LOCATION: 1650' FNL & 330' FEL (H), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: TEXACO

BLM TRACT NUMBER: 12 **API NUMBER:** 3002524219

SPUD DATE: 8/17/72

KB: 3082' GL: TD: 8102' PBTD: 7948'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			560'	580 sxs cmt, circ
8-5/8"			3443'	1700 sxs cmt,(TOC @ 3000' by TS
5-1/2"			8100'	1140 sxs cmt

LOGS:

Date	Company	Log Name
9/16/72	Schlumberger	Sonic, DIL

DST's:

1	7821-70'	Op 75", Rec 394' GCOF, 1173' XW, 60" ISIP/1633, FP 104-1057, 120" FSIP/1633
2	7904-8000'	Op 65", GTS 45" tstm, Rec 268' SO&GCM, 268' GCM, 1608' XW, 60" ISIP/1714, FP 242-688, 120" FSIP/ 1714

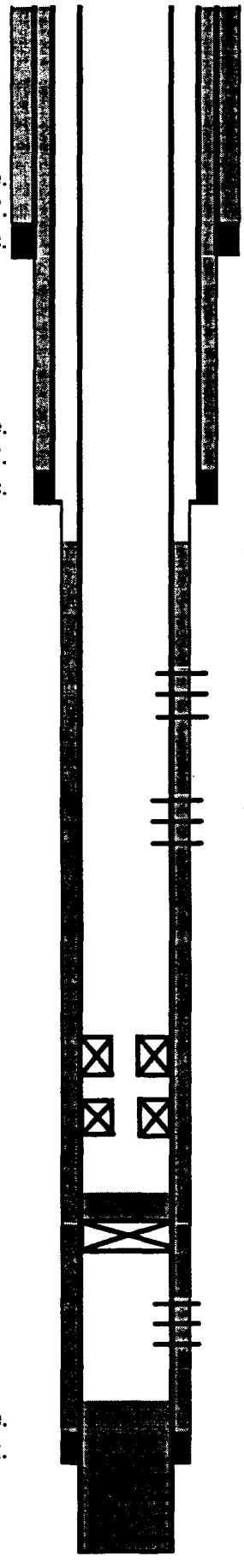
INITIAL COMPLETION: IP Ellenburger (7731-90'), F 132 BO, A/3250, GOR 1106, TP 200#

INITIAL COMPLETION DATE: 10/10/72

TREATMENTS AND WORKOVERS

11-72	Install P.E.
2-79	Add Perf & Acidize Ellenburger 7631-7686' & 7561-7604'
11-83	C/O, Add Perf & Acidize Ellenburger 7526-7555'

WELLBORE SCHEMATIC



South Justis Unit H #21

(Texaco A. B. Coates C #18)
1980' FSL & 990' FEL (I)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3077'
Spudded 11/05/58
Completed 12/24/58

17-1/2" Hole.
13-3/8" casing @ 540'.
Set w/550 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3327'.
Set w/900 sxs cmt. Circ.

TOC @ 3680' by TS

Blinebry Perfs @ 5160' to 5354'

Tubb/Drinkard Perfs 5830' to 5912'

Baker loc-set @ 6115' w/on-off @ 6108' SN @ 6079'

Baker loc-set @ 6169'

PBD @ 7615'
CIBP @ 7650'

Ellenburger Perfs @ 7680' to 7694'

8-3/4" hole.
7" csg @ 7758' w/900 sxs cmt.

PBD @ 7747'

TD @ 7800'.

SOUTH JUSTIS UNIT "H" #21

LOCATION: 1980' FSL & 990' FEL (I), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: TEXACO

FORMER WELL NAME: A. B. COATES "C" #18

BLM TRACT NUMBER: 12 **API NUMBER:** 3002511740

SPUD DATE: 11/5/58

KB: 3077' GL: TD: 7800' PBTD: 7615'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			540'	550 sxs cmt, circ
9-5/8"			3327'	900 sxs cmt, circ
7"	23#		7758'	900 sxs cmt, (TOC @ 3680' by TS)

LOGS:

Date	Company	Log Name
12/12/58	Schlumberger	GR-N, ML, IES

DST's:

1		7165-7315'	Failed
2	McKee	7155-7315	Op 3 hr, G 1 hr, RO 100 GCM; RBS 60' SOGCM: FP 200-200; SI 30"/640
3	McKee	7151-7403'	Op 3 hr, G 1 hr 8 min; RO 310' HOGCM; RBS 90' smc oil, 120' oil; FP 420-500; SI 30"/720
4		5245-7635'	Open 2-1/2 hr, rec 120' mud; ISIP 30"/240; FP 120-160; SIP 30"/240; A 500; SOF 8000; F 179 BLO 19 hrs 20/64" ck. Tbg P 200-270, GOR 1260: PDR 7510

INITIAL COMPLETION: IP Dual Ellenburger (7758-7800' OH), F 193 BOPD
Blinebry 5274-5354', A/1900, 109 BO/0 BW/GOR 9064/F

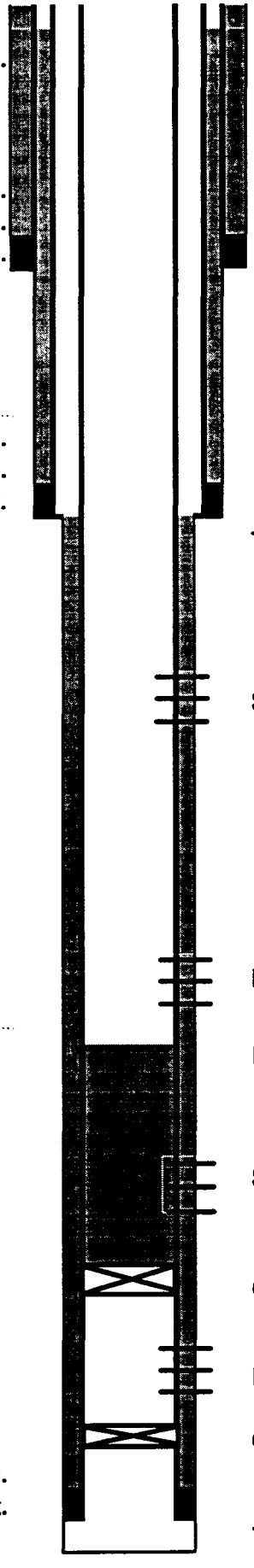
SOUTH JUSTIS UNIT "H" #21

INITIAL COMPLETION DATE: 12/24/58

TREATMENTS AND WORKOVERS

7-62	Triple - Ellenburger (same) Blinebry (same) Tubb/Drinkard 5830-5912', A/6000, 59 BO/5 BW/? MCF/F
4-64	Install P.E. Tubb/Drinkard, 60 BO/25 BW/GOR 1017/P
11-65	Install P.E. Blinebry, 15 BO/0 BW/GOR 3533/P
9-67	Repair Csg Leak
3-69	Blinebry - Add Perf 5160-5354', F/40/60, 100 BO/12 BW/GOR 1380/F
4-70	Plugback Ellenburger
4-70	Install P.E. Ellenburger
3-70	Remove P.E. from Blinebry (still flowing)
1-74	Blinebry test - 25 BO/44 BW/GOR 4808/F
2-76	Downhole commingle Blinebry & Tubb Drinkard, 12 BO/157 BW/? MCF/P
5-92	Set CIBP @ 7650' w/35' cmt

WELLBORE SCHEMATIC



A. B. Coates C #9

Texaco
1980' FSL & 1980' FEL (J)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3087'
Spudded 11/05/57
Completed 01/02/58

TOC @ 77' (Calculated).

17-1/2" Hole.
13-3/8" casing @ 536'.
Set w/525 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3364'.
Set w/1300 sxs cmt.

TOC @ 3830' by TS

Sqzd Drinkard Perfs @ 5910' to 5936'

Montoya Perfs @ 6634' to 6679'

PBD @ 6691'

Sqzd Montoya Perfs

CIBP @ 7595'

Ellenburger Perfs @ 7857' to 7872'

CIBP @ 7889'

8-3/4" hole.
7" csg @ 7950' w/653 sxs cmt.

TD @ 8075'.

A. B. COATES "C" #9

LOCATION: 1980' FSL & 1980' FEL (J), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: TEXACO

BLM TRACT NUMBER: 12 **API NUMBER:** 3002511731

SPUD DATE: 11/5/57

KB: 3087' TD: 8264' PBTD: 6660'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"	48#		536'	525 sxs cmt, circ (est)
9-5/8"	36#	J-55	3364'	1300 sxs cmt,(TOC @ 77'-est)
7"	23#	J-55/N-80	7950'	653 sxs cmt, (TOC @ 3830'-TS)

LOGS:

Date	Company	Log Name
1/1/58	Schlumberger	GR-N, IES, ML

DST's:

INITIAL COMPLETION: IP Ellenburger F 1692 BO

INITIAL COMPLETION DATE: 1/2/58

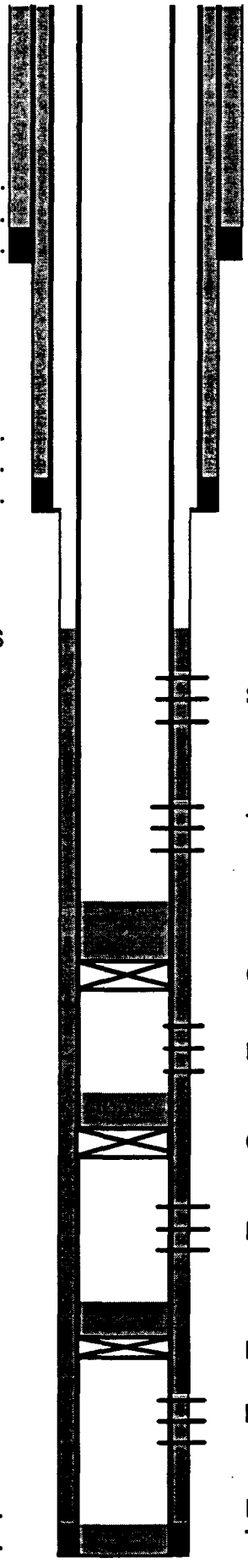
TREATMENTS AND WORKOVERS

4-59	Recomplete as dual Ellenburger - Drinkard Drinkard; 5910' tr 5936' A/1000, 72 BO/47 MCF/0 BW/F
8-65	Plugback and acidize Ellenburger
3-66	Install pumping equipment Drinkard, 26 BO/3 BW/P
11-66	Plugback Ellenburger zone
1-67	Install pumping equipment Ellenburger
7-67	Plugback Ellenburger zone
9-68	Plugback Ellenburger zone
2-69	Install pumping equipment Ellenburger
7-70	P&A Ellenburger, Recomplete to Montoya
10-70	Squeeze off Montoya & Drinkard, Re-perforate Montoya

A. B. COATES "C" #9

2-71	Add. perf Montoya
5-74	Recomplete in Blinebry 5024-5497', A/3000, F/80/120 22 BO/217 MCF/16 BW/P
3-79	Recomplete in Montoya

WELLBORE SCHEMATIC



South Justis Unit G #21

(Texaco A. B. Coates C #21)
2080' FSL & 1980' FEL (J)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3085'
Spudded 11/05/58
Completed 12/17/58

17-1/2" Hole.
13-3/8" casing @ 536'.
Set w/550 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3323'.
Set w/1100 sxs cmt. Circ.

TOC @ 5098' by TS

Sqzd Blinebry Perfs @ 5278' to 5474'

Tubb/Drinkard Perfs 5626' to 5938'

CIBP @ 6592' w/35' cmt

Montoya Perfs @ 6627' to 6674'

CIBP @ 6787' w/10' cmt

Montoya Perfs @ 6884' to 6922'

Mod. D Pkr @ 7150' w/10' cmt

McKee Perfs @ 7360' to 7479'

8-3/4" hole.
7" csg @ 7549' w/700 sxs cmt.

PBD @ 7545'
TD @ 7551'.

SOUTH JUSTIS UNIT "G" #21

LOCATION: 2080' FSL & 1980' FEL (J), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: TEXACO

FORMER WELL NAME: A. B. COATES "C" #2

BLM TRACT NUMBER: 12 **API NUMBER:** 3002511743

SPUD DATE: 11/5/58

KB: 3085' GL: TD: 7551' PBTD: 7545'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"	36#		536'	550 sxs cmt
9-5/8"	32#		3323'	1100 sxs cmt, circ
7"	23#		7549'	700 sxs cmt, (TOC @ 5098' - TS)

LOGS:

Date	Company	Log Name
12/9/58	Schlumberger	GR-N, LL, ML, IES

DST's:

1	Tubb/Drinkard	5890-5960'	Op 3', G 5 min, mud 47 min, oil 50 min; F 44.5 BO 2 hr; RO 14.5 BO; FP 420-820, SI 30"/2380
2	Montoya	6630-6780'	Op 3 hr, G 12 min, RO 200' OGCM; RBS 150' SOCM; FP 180-280; SI 30"/1580

INITIAL COMPLETION: Dual-McKee 7360-7479', F 254 BOPD
Montoya 6884-6922', F 185 BOPD, A/1000

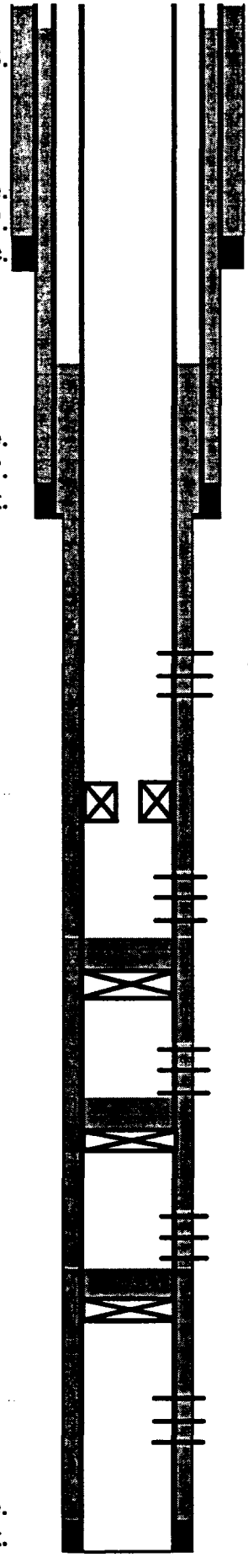
INITIAL COMPLETION DATE: 12/17/58

SOUTH JUSTIS UNIT "G" #21

TREATMENTS AND WORKOVERS

1-63	Triple - McKee (same) Montoya-(same) Blinebry-5278-5474', A/1000, F/24/48, 51 BO/0 BW/GOR 5310/F
1-63	Install P.E. Montoya
1-65	Acidize Montoya
11-71	Plug off McKee & Montoya Blinebry Test: 20 BO/1 BW/GOR 950/P
3-75	Recomplete in Montoya (Unsuccessful) NIO
8-76	Recomplete in Tubb/Drinkard 5643-5848', A/5000 - Swbd Dry
5-78	Recomplete to Upper Montoya 49 BO/269 BW/24 MCF/P
9-78	Install submersible pump 0 BO/810 BW/SP - SI
11-78	Squeeze off water and add. perf Montoya 2BO/ 9 BW/220 MCF/P
6-84	Plug off Montoya Recomplete to Tubb/Drinkard 5626-5938' A/5000 F/44/97, 4BO/80 BW/395 MCF/P
3-85	SI (1 BO/122 BW/0 MCF - Prior Test)

WELLBORE SCHEMATIC



South Justis Unit F #21

(Texaco A. B. Coates C #12)
1980' FSL & 1650' FWL (K)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3087'
Spudded 06/07/58
Completed 07/16/58

TOC @ 90' by TS.

17-1/2" Hole.
13-3/8" casing @ 542'.
Set w/550 sxs cmt. Circ.

TOC @ 1880' by TS

12-1/4" Hole.
9-5/8" casing @ 3348'.
Set w/1200 sxs cmt.

Tubb/Drinkard Perfs @ 5794' to 5866'

Model D Pkr @ 6597'

Fusselman Perfs @ 6656' to 6702'

PBD @ 6725'
CIBP @ 6735'

Fusselman Perfs @ 6742' to 6787'

CIBP @ 6813' w/10' cmt

Fussleman Perfs @ 6827' to 6857'

CIBP @ 6888' w/10' cmt

Fusselman Perfs @ 6930' to 6975'

8-3/4" hole.
7" csg @ 7137' w/850 sxs cmt.

TD @ 7137'.

SOUTH JUSTIS UNIT "F" #21

LOCATION: 1980' FSL & 1650' FWL (K), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: TEXACO

FORMER WELL NAME: A. B. COATES "C" #21

BLM TRACT NUMBER: 12 **API NUMBER:** 3002511734

SPUD DATE: 6/7/58

KB: 3087' GL: TD: 7137' PBTD: 6725'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			542'	550 sxs cmt, circ
9-5/8"	36/32.3#		3348'	1200 sxs cmt
7"	23#	J-55/N-80	7137'	850 sxs cmt, (TOC @ 1880' - TS)

LOGS:

Date	Company	Log Name
	Schlumberger	GR-N, LL, MLL

DST's:

INITIAL COMPLETION: Dual-Fusselman 6930-6975', F 375 BOPD
Drinkard 5890-5940', A/1000, 58 BO/59 MCF/0 BW/F

INITIAL COMPLETION DATE: 7/16/58

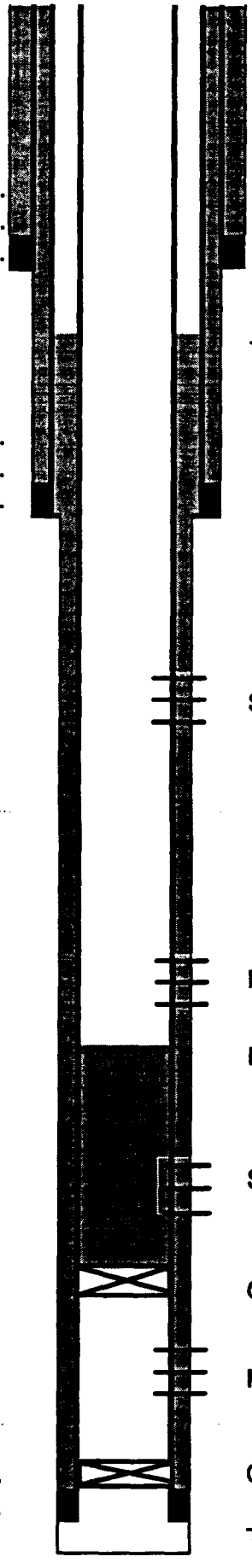
TREATMENTS AND WORKOVERS

6-64	Plug back Fusselman
4-66	Install gas lift - Fusselman
4-66	Install P.E. - Tubb Drinkard, 54 BO/? MCF/6 BW/P
3-69	Install P.E. Fusselman
3-72	Plug back Fusselman. Add perfs Tubb/Drinkard 5794-5867' Acidize new perfs 5794-5867', A/3500, Tubb/Drinkard 11 BO/31 MCF/108 BW/P

SOUTH JUSTIS UNIT "F" #21

5-76	Plug back Fusselman Add perfs Tubb/Drinkard, 5654-5716'. Acidize Tubb/Drinkard 5654-5716', A/3000 Tubb/Drinkard, 3 BO/? MCF/150 BW/P
9-84	Downhole commingle Tubb/Drinkard & Fusselman

WELLBORE SCHEMATIC



A. B. Coates C #13

Texaco
1980' FSL & 2310' FWL (K)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3086'
Spudded 04/15/58
Completed 05/28/58

17-1/2" Hole.
13-3/8" casing @ 541'.
Set w/500 sxs cmt. Circ.

TOC @ 2188' (Estimate)

12-1/4" Hole.
9-5/8" casing @ 3349'.
Set w/1208 sxs cmt. Circ.

Sqzd Glorieta Perfs @ 4692' to 4709'

Montoya Perfs @ 6810' to 6836'

PBD @ 6860'

Sqzd Montoya Perfs @ 6854' to 7024'

CIBP @ 7070'

Montoya Perfs @ 7070' to 7118'

8-3/4" hole.
7" csg @ 8160' w/850 sxs cmt.

Cement Retainer @ 8100'

TD @ 8205'.

A. B. COATES "C" #13

LOCATION: 1980' FSL & 2310' FWL (K), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: TEXACO

BLM TRACT NUMBER: 12 **API NUMBER:** 3002511735

SPUD DATE: 4/15/58

KB: 3086' GL: TD: 8205' PBTD: 6860'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			541'	500 sxs cmt, circ
9-5/8"			3449'	1208 sxs cmt, circ
7"	23#	J-55/N-80	8160'	850 sxs cmt

LOGS:

Date	Company	Log Name
5/23/58	Schlumberger	GR-N, IES, ML

DST's:

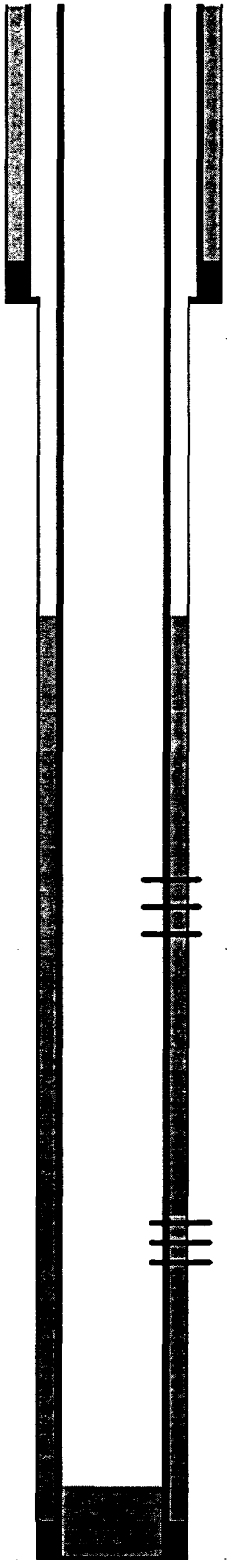
INITIAL COMPLETION: IP Ellenburger (8160-8205'), F 346 BO

INITIAL COMPLETION DATE: 5/28/58

TREATMENTS AND WORKOVERS

10-58	Recomplete as dual Ellenburger - Glorieta 4691-740'
4-60	Plugback Ellenburger
11-60	Install gas lift Ellenburger
5-61	Plug off Ellenburger & recomplete in Montoya
10-64	Install P.E. Montoya
2-69	Squeeze Glorieta - Unsuccessful in shutting of water, SI
2-71	Add perfs Montoya
10-78	Squeeze off bottom perfs in Montoya and perforate higher

WELLBORE SCHEMATIC



A. B. Coates C #27

Texaco
1650' FSL & 1650' FWL (K)
Sec. 24, T-25S, R-37E, Lea Co., NM
KB 3083'
Spudded 07/25/65
Completed 08/25/65

11" hole.
7-5/8" casing @ 909'.
Set w/435 sxs cmt. Circ.

TOC @ 2400' by TS.

Sqzd Glorieta perfs @ 4686' to 4728'.

Blinebry Perfs @ 4686' to 5449'.

6-3/4" hole.
4-1/2" csg @ 5649' w/882 sxs cmt.

PBD @ 5505'.
TD @ 5650'.

A. B. COATES "C" #27

LOCATION: 1650' FSL & 1650' FWL (K), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: TEXACO

BLM TRACT NUMBER: 12 **API NUMBER:** 3002521428

SPUD DATE: 7/25/65

KB: 3083' GL: TD: 5650' PBTD: 5505'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
7-5/8"	26.4#	J-55	909'	435 sxs cmt, circ
4-1/2"	11.6#	J-55	5649'	882 sxs cmt,(TOC @ 2400'-TS)

LOGS:

Date	Company	Log Name
8/12/65	Lane Well	GR-Sonic, LL, MLL

DST's:

INITIAL COMPLETION: IP Blinebry 5395-5449', A/1500, F/24/48, 70 BO/10BW/46 MCF/F

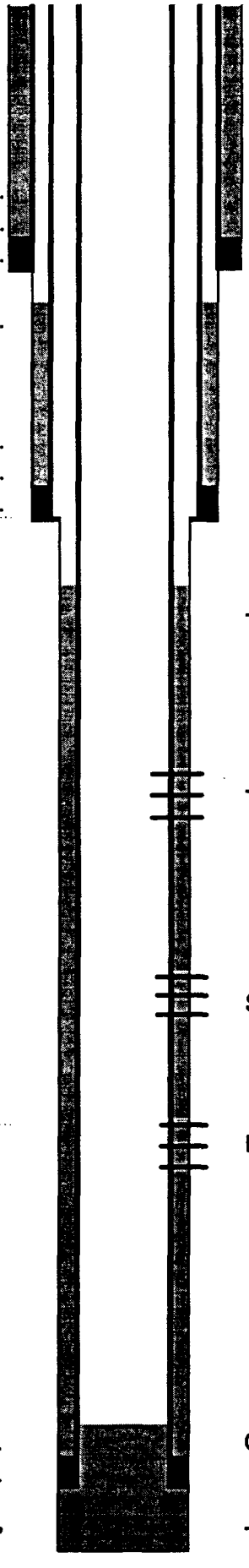
INITIAL COMPLETION DATE: 8/25/65

TREATMENTS AND WORKOVERS

12-69 Add Perfs Blinebry 4986-5359', A/3075, F/15/20
Blinebry Test: 4986-5449', 4 BO/1 BW/GOR 45,167/F
Perf Glorieta 4686-4728', 0 BO/96 BW/630 MCF/F
Squeezed off Glorieta 4686-4728'

1-78 Install P.E., 20 BO/23 BW/563 MCF/P

WELLBORE SCHEMATIC



South Justis Unit E #21

(AHC/ARCO Ida Wimberley #3)
1980' FSL & 990' FWL (L)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3085'
Spudded 03/26/58
Completed 05/05/58

17-1/2" Hole.
13-3/8" casing @ 617'.
Set w/600 sxs cmt. Circ.

TOC @ 838' by TS.

12-1/4" Hole.
9-5/8" casing @ 3237'.
Set w/1500 sxs cmt.

TOC @ 4057' by TS

Tubb/Drinkard Perfs @ 5654' to 5867'

Sqzd Drinkard Perfs @ 5886' to 5948'

Fusselman Perfs @ 6831' to 6847'

8-3/4" hole.
7" csg @ 6960' w/385 sxs cmt.

OH sqzd w/cmt @ 6900'

Fusselman OH @ 6960' to 7000'

TD @ 7000'.

SOUTH JUSTIS UNIT "E" #21

LOCATION: 1980' FSL & 990' FWL (L), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: AHC/ARCO OIL AND GAS COMPANY

FORMER WELL NAME: IDA WIMBERLEY #3

BLM TRACT NUMBER: 51 **API NUMBER:** 3002511718

SPUD DATE: 3/26/58

KB: 3085' GL: TD: 7000' PBTD: 6900'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			617'	600 sxs cmt, circ
9-5/8"			3237'	1500 sxs cmt
7"			6960'	385 sxs cmt, (TOC @ 4057'-TS)

LOGS:

Date	Company	Log Name
4/30/58	Schlumberger	GR, ES, MLL

DST's

1	Paddock	4625-4785'	GTS 6", F 591 MCFD, rec 280' SW, IFP 308, FFP 240, 10" SIP 1285
2	Paddock	4785-4936'	F 14 MCFD, rec 70' DM, 270' O&GCDM, IFP 161, FFP 331, 30' SIP 986
3	Paddock	4939-5050'	GTS 4", Spray SW-TS in 24", Flwd 2:1 MMCFD, 1 BW/Hr
4	Drinkard	5855-5975'	Gas to Surf in 5 mins, oil & mud to surf in 25 min. Next 4 hrs flwd 154 BO, 1 bbl mud, & 0.3 bbl wtr with a GOR of 731 SCF/STB & an oil gravity of 36.6° API. HP in 3040, HP out 3010 psi, IFP 700, FFP 1445, 10 min BU 2195 psi, 20 min BU 2415 psi, 30 min BU 2455 psi (still increasing)

INITIAL COMPLETION: IP: Flwd at a rate of 687 BOPD, Gravity = 38.3° API, GOR 711 SCF/STB, Perforated from 5886-6948' Drinkard formation

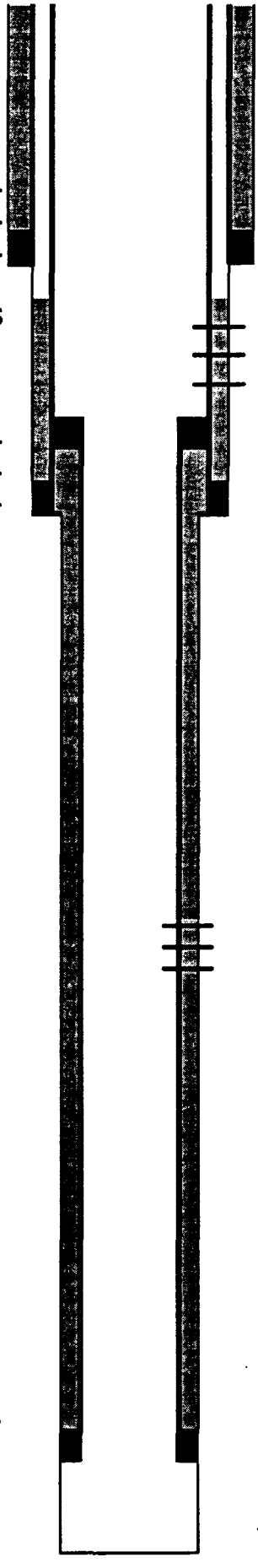
SOUTH JUSTIS UNIT "E" #21

INITIAL COMPLETION DATE: 5/5/58

TREATMENTS AND WORKOVERS

6-64	Plug back Fusselman
4-66	Install gas lift - Fusselman
4-66	Install P.E. - Tubb/Drinkard, 54 BO/0 MCF/6 BW/P
3-69	Install P.E. - Fusselman
3-72	Plug back Fusselman Add perfs. Tubb/Drinkard, 5794-5867' Acidize new perfs 5794-5867', A/3500 Tubb Drinkard - 11 BO/ 31 MCF/ 108 BW/P
5-76	Plug back Fusselman Add perfs Tubb/Drinkard 5654-5716' Acidize Tubb/Drinkard 5654-5716', A/3000 Tubb/Drinkard, 3 BO/ 0 MCF/ 150 BW/P
9-84	Downhole commingle Tubb/Drinkard & Fusselman
2-18-88	MIRU PU and pulled rods & pump. Closed all valves & TA'd well: Well status changed from a pumping oil well to a TA'd well.

WELLBORE SCHEMATIC



Ida Wimberley #11

ARCO Oil and Gas Company
1980' FSL & 660' FWL (L)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3086'
Spudded 05/10/59
Completed 06/06/59

12-1/4" Hole.
9-5/8" casing @ 496'.
Set w/250 sxs cmt. Circ.

TOC @ 1590' by TS

Seven Rivers Queen Perfs @ 2906' to 3160'

8-3/4" Hole.
7" casing @ 3239'.
Set w/1000 sxs cmt.

Top of 4-1/2" Liner @ 3197'

Sqzd Paddock Perfs @ 4880' to 4992'

6-1/4" Hole.
4-1/2" Liner @ 5325' w/250 sxs cmt.

Blinebry OH 5325' to 5472'
TD @ 5472'.

IDA WIMBERLEY #11

LOCATION: 1980' FSL & 660' FWL (L), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: ARCO OIL AND GAS COMPANY

BLM TRACT NUMBER: **API NUMBER:** 3002511721

SPUD DATE: 5/10/59

KB: 3086' GL: TD: 5472' PBTD:

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"			496'	250 sxs cmt, circ
7"			3239'	1000 sxs cmt, (TOC @ 1590'-TS)
4-1/2" Lnr			3197-5325'	250 sxs cmt, (TOC @ 2752' - Calc)

LOGS:

Date	Company	Log Name
6/2/59	Schlumberger	GR-N, IES, ML

DST's:

INITIAL COMPLETION: OH 5315-5472' Blinebry, A/1000 gals SOF 10/30
IP: Flwd at rate of 979 BOPD, Gravity 37.8° API,
GOR = 1048 SCF/STB

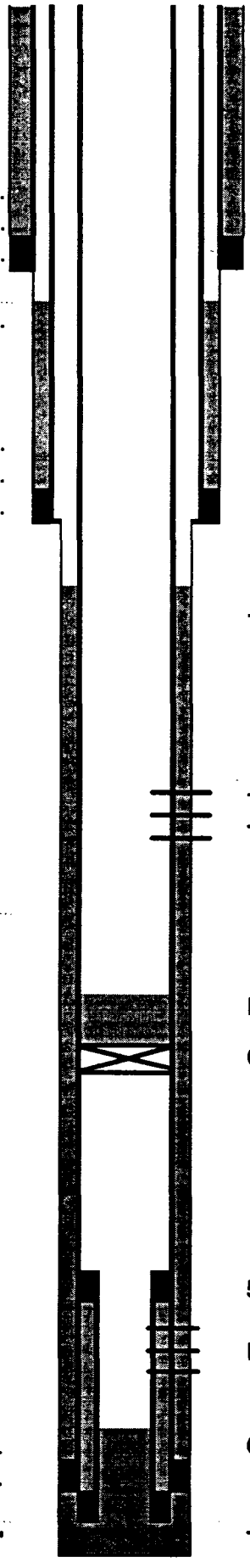
INITIAL COMPLETION DATE: 6/6/59

TREATMENTS AND WORKOVERS

1-21-62 Perforated Paddock from 4880-4920', treated, tested & squeezed perfs with cement. Resumed production from Blinebry.

9-30-63 Perforated Seven Rivers-Queen from 2906-3160', treated, and placed on production. Now dual completion in Blinebry and Seven Rivers - Queen.

WELLBORE SCHEMATIC



South Justis Unit E #22

(AHC/ARCO Ida Wimberley #4)
660' FSL & 990' FWL (M)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3081'
Spudded 05/30/58
Completed 06/30/58

17-1/2" Hole.
13-3/8" casing @ 497'.
Set w/400 sxs cmt. Circ.

TOC @ 1650' by TS.

12-1/4" Hole.
9-5/8" casing @ 3269'.
Set w/1500 sxs cmt.

TOC @ 3350' by TS

Tubb/Drinkard Perfs @ 5886' to 5942'
TA'd

PBD @ 6220'

CIBP @ 6255' w/35' cmt on top

5-1/2" Liner @ 6730' to 6996'

Fusselman Perfs @ 6830' to 6916'

8-3/4" hole.
7" csg @ 6828' w/465 sxs cmt.

OH sqzd w/cmt @ 6900'

Fusselman OH @ 6828' to 7000'

TD @ 7000'.

SOUTH JUSTIS UNIT "E" #22

LOCATION: 660' FSL & 990' FWL (M), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: AHC/ARCO OIL AND GAS COMPANY

FORMER WELL NAME: IDA WIMBERLEY #4

BLM TRACT NUMBER: 51 **API NUMBER:** 3002511720

SPUD DATE: 5/30/58

KB: 3081' GL: 3079' TD: 7000' PBTD: 6220'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			497'	400 sxs cmt, circ
9-5/8"			3269'	1500 sxs cmt, (TOC @ 1650' - TS)
7"			6828'	465 sxs cmt, (TOC @ 3350' - TS)
5-1/2" Lnr			6730-6996'	

LOGS:

Date	Company	Log Name
6/28/58	Schlumberger	GR, IES, ML

DST's:

INITIAL COMPLETION: IP Flwd 571 BOPD, Gravity 36.2° API, GOR = 763 SCF/STB
Completed OH from 5886-5942' - Drinkard

INITIAL COMPLETION DATE: 6/30/58

TREATMENTS AND WORKOVERS

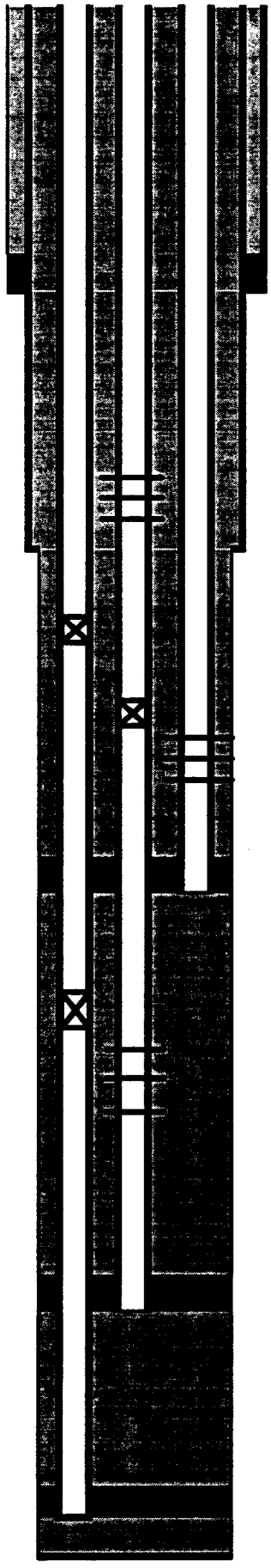
6-65 to 7-65 Cemented 5-1/2" liner from 6730-6996', perforated liner from 6830-6916' in Fusselman & acidized, P.B.D. 6975'

Acidized & sand-oil frac'd Drinkard perfs from 5886-5942' with 2000 gal. 15% NE acid, 20,000 gal refined oil, and 23,556 pounds 20-40 sand. Resumed flowing both zones by gas lift

SOUTH JUSTIS UNIT "E" #22

8-31-79	Fusselman zone abandoned, left 7 jts of 2-3/8" tbg & Model "D" pkr at 6760', set CIBP @ 6255' with 35' cmt on top. Resumed production from Drinkard as pumping oil well.
2-24-88	MIRU PU and pulled rods, pump & tbg. Closed all valves & TA'd well. Well status changed from a pumping oil well to a TA'd well.

WELLBORE SCHEMATIC



Ida Wimberley #13

ARCO Oil and Gas Company
330' FSL & 330' FWL (M)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3079'
Spudded 11/11/60
Completed 12/06/60

15" Hole.
10 3/4" casing @ 855'
Set w/700 sxs [redacted]

TOC @ 1805' by TS.

Seven Rivers Queen Perfs @ 2938' to 3189'

CIBP @ 3000'.

CIBP @ 3315'
San Andres perfs @ 4070'-4165'.
(Disposal)

9-7/8" Hole.
3-1/2 Tbg @ 4241'.

CIBP @ 4901'.

Paddock Perfs @ 5017' to 5057'

8-3/4" Hole.
2-7/8" tbg @ 5318'.

8-3/4" Hole.
2-7/8" tbg @ 5341'.

Blinebry OH 5319' to 5450'

TD @ 5450'.

IDA WIMBERLEY #13

LOCATION: 330' FSL & 330' FWL (M), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: ARCO OIL AND GAS COMPANY

BLM TRACT NUMBER: **API NUMBER:** 3002511722

SPUD DATE: 11/11/60

KB: 3079' GL: TD: 5450' PBTD:

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
10-3/4" &	11-3/4"		855'	700 sxs cmt, circ
3-1/2"			4241'	1115 sxs cmt
2-7/8"			5318'	1115 sx cmt
2-7/8"			5341'	1115 sxs cmt

LOGS:

Date	Company	Log Name
12/6/60	Schlumberger	Sonic

DST's:

1	U/Blinebry	4871-4959'	Opened tool & had fair blow air; gas to surf in 24 min, vol TSTM; drill pipe press decreased from 3 psi to 1 psi during 2 hr test. Recovery above T.C. valve: 145' (2 bbls) oil & gas cut mud, est 12% oil; and 385' (3.8 bbls) oil, gas, & sulfur water cut mud, est 23% oil. Recovery below T.C. valve: 120' (0.8bbls) sulfur wtr. HI 2610, HO 2610, ICIP 1857, IFP 195, FFP 325, 1.5 hr BUP @ 10 min intervals (658, 893, 1032, 1151, 1267, 1343, 1402, 1452, 1508 psi), Calc res press 2060 psi.
2	U/Blinebry	5020-5110'	Opened tool & had good blow air; gas to surf in 10 min; gas rates increased from 222, 590 to 327, 570 CFPD while drill pipe pres increased from 85 to 130 psi during 2 hr test. Rec above T.C. valve: 235' (1.85 bbls) salty sulfur water w/trace of oil. Rec below T.C. valve: 118' (0.87 bbls) salty sulfur & mud cut with 27% oil. HI 2660, HO 2660, ICIP 2312, IFP 180, FFP 305, 1 hr BUP @ 10 min intervals: (2241, 2290, 2298, 2300, 2302, 2302 psi), Calc res. pressure 2325 psi

water

IDA WIMBERLEY #13

INITIAL COMPLETION:

(String #1) 3-1/2" csg perfs from 4070-4090' & 4145-4165' San Andres (S.W.D.)

(String #2) 2-7/8" csg perfs from 5017-5057', Undesignated U/Blinebry, Acidized w/2000 gals 15% NE acid. IP Flwd at rate of 183 BOPD, Gravity = 42.1° API, GOR 10,911 SCF/STB

(String #3) Open hole from 5319-5450' Blinebry, Acidized w/6000 gals 15% NE acid, frac'd w/10,000 gals refined oil & 15,000# sand. IP: Flwd at rate of 203 BOPD, Gravity = 37.8° API, GOR = 457 SCF/STB

INITIAL COMPLETION DATE: 12/6/60

TREATMENTS AND WORKOVERS

4-4-63 String #3 - Blinebry zone on gas lift

5-28-63 String #2 - Set CIBP at 3315' w/10' cmt on top, plugged back to 3305', Upper Blinebry zone abandoned. Perforated 2-7/8" csg in Seven Rivers - Queen from 2938-3189', treated and completed as gas well.

11-29-71 String #1 - Blinebry zone abandoned. Left 1 jt tbg, 1 SN & 1 pkr in hole, top of fish @ 5225'. Set CIBP @ 4901', set CIBP @ 3000'

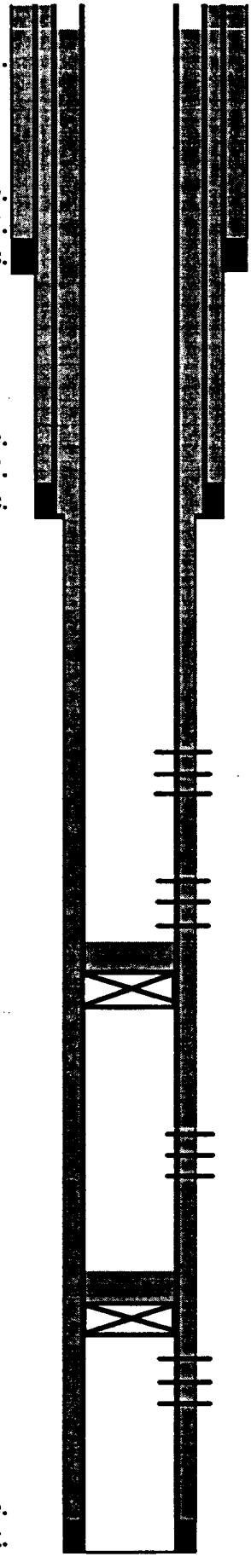
(Current Completion)

String #1 3-1/2" csg perfs from 4070-4165', San Andres (Disposal), Zone abandoned-junk in hole

String #2 2-7/8" csg perfs from 2938-3189', Seven Rivers-Queen, Gas Well

String #3 Blinebry P&A, Junk in hole

WELLBORE SCHEMATIC



TOC @ 40' by TS.

17-1/2" Hole.
13-3/8" casing @ 538'.
Set w/550 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3315'.
Set w/1500 sxs cmt. Circ.

South Justis Unit F #22

(Texaco A. B. Coates D #2)
660' FSL & 1650' FWL (N)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3079'
Spudded 07/21/58
Completed 08/29/58

Tubb/Drinkard Perfs @ 5729' to 5936'

Fusselman Perfs @ 6656' to 6678'

CIBP @ 6710'

Fusselman Perfs @ 6730' to 6849'

CIBP @ 6935' w/cement to 6928'

Fusselman Perfs @ 6862' to 6970'

8-3/4" hole.
7" csg @ 7005' w/800 sxs cmt.

TD @ 7007'.

SOUTH JUSTIS UNIT "F" #22

LOCATION: 660' FSL & 1650' FWL (N), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: TEXACO

FORMER WELL NAME: A. B. COATES "D" #2

BLM TRACT NUMBER: 1 **API NUMBER:** 3002511747

SPUD DATE: 8/20/58

KB: 3079' GL: TD: 7007' PBTD: 6700'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"	48#		538'	550 sxs cmt, circ
9-5/8"			3315'	1500 sxs cmt, circ
7"	23#	J-55/N-80	7005'	800 sxs cmt, (TOC @ 40' - TS)

LOGS:

Date	Company	Log Name
8/20/58	Schlumberger	GR-N, ML, IES

DST's:

INITIAL COMPLETION: IP Fusselman 6862-6970'
Drinkard 5870-5936', A/1000, 138 BO/2 BW/93 MCF/F

INITIAL COMPLETION DATE: 8/29/58

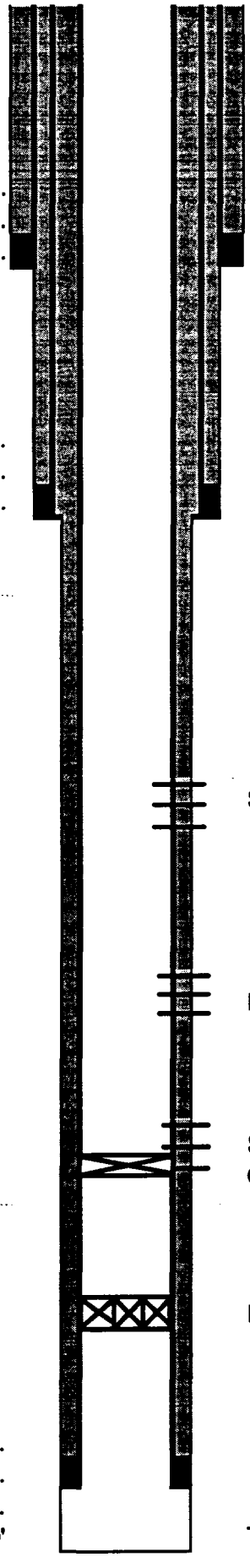
TREATMENTS AND WORKOVERS

9-62	Install gas lift Fusselman Install P.E. Tubb/Drinkard 6 BO/13 BW/P
9-64	Plugback Fusselman Frac Tubb/Drinkard F/20/20, 30 BO/ 43 BW/ GOR 3720/F
1-68	Install P.E. Tubb/Drinkard

SOUTH JUSTIS UNIT "F" #22

12-68	Plugback Fusselman & Install P.E.
1-71	Squeeze Fusselman, Re-perf in Fusselman-Silurian (6656-6676') Add. Perf Tubb/Drinkard 5729-5819', 33 BO/126 BW/GOR 8516/P
3-85	Downhole commingle Tubb/Drinkard & Fusselman, 8 BO/175 BW/368 MCF/P

WELLBORE SCHEMATIC



A. B. Coates D #3

Texaco
990' FSL & 2310' FWL (N)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3097'
Spudded 03/20/59
Completed 05/29/59

17-1/2" Hole.
13-3/8" casing @ 539'.
Set w/550 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3309'.
Set w/1100 sxs cmt. Circ.

Sqzd Blinebry Perfs @ 5300' to 5430'

Montoya Perfs @ 6860' to 6869'

Sqzd Montoya Perfs @ 6876' to 6987'
Cement Plug @ 6900'

Pkr Plug @ 7909' w/Sand & Hydromite

8-3/4" hole.
7" csg @ 8243'.
Set w/4047 sxs cmt. Circ.
Ellenburger OH @ 8243' to 8260'

TD @ 8260'.

A. B. COATES "D" #3

LOCATION: 990' FSL & 2310' FWL (N), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: TEXACO

BLM TRACT NUMBER: 1 **API NUMBER:** 3002511748

SPUD DATE: 3/20/59

KB: 3097' GL: TD: 8260' PBTD: 6900'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"	48#		539'	550 sxs cmt, circ
9-5/8"	36#	J-55	3309'	1100 sxs cmt, circ
7"	23#	J-55/N-80	8243'	4057 sx cmt, circ

LOGS:

Date	Company	Log Name
4/29/59	Schlumberger	GR-N, IES, ML

DST's:

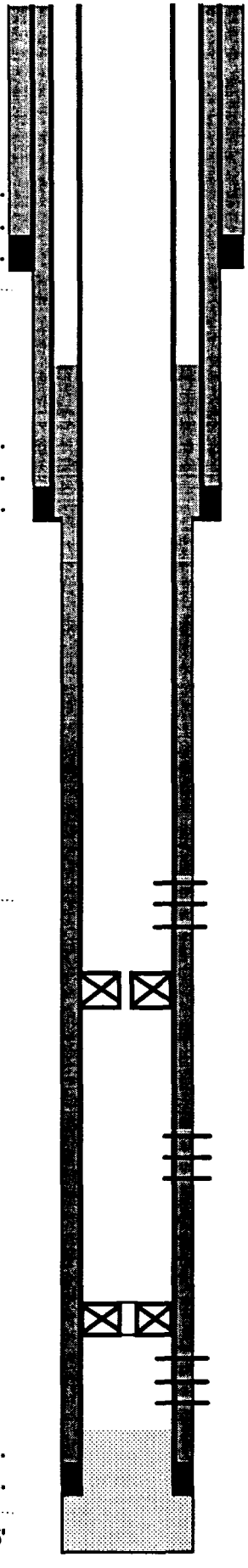
INITIAL COMPLETION: IP Dual Ellenburger (8243-8260' OH), Blinebry 5300-5430', A/500 F/20/20, 204 BO/0 BW/ 337 MCF/F

INITIAL COMPLETION DATE: 5/29/59

TREATMENTS AND WORKOVERS

1-60	Plug off Ellenburger, 75 BO/8 BW/F
4-70	Install P.E. 24 BO/1 BW/GOR 6400/P
10-71	Dual-Montoya 6876-6987', A/7500 Blinebry (same)
3-78	Squeeze off Blinebry & Montoya Re-perf Upper Montoya
1-83	C/O and acidize

WELLBORE SCHEMATIC



A. B. Coates C #15

Texaco
660' FSL & 1980' FEL (O)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3084'
Spudded 07/21/58
Completed 09/05/58

17-1/2" Hole.
13-3/8" casing @ 544'.
Set w/550 sxs cmt. Circ.

TOC @ 3290' by TS

12-1/4" Hole.
9-5/8" casing @ 3320'.
Set w/1300 sxs cmt. Circ.

Montoya Perfs @ 6864' to 6966'

Lockset Pkr @ 6911'

Montoya Perfs @ 6943' to 6966'

Plug in Pkr @ 7785'

Ellenburger Perfs @ 8000' to 8024'

8-3/4" hole.
7" csg @ 8050' w/950 sxs cmt.

PBD @ 8027' w/marbles @ hydromite

Ellenburger OH @ 8050' to 8125'

TD @ 8125'.

A. B. COATES "C" #15

LOCATION: 660' FSL & 1980' FEL (O), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: TEXACO

BLM TRACT NUMBER: 12 **API NUMBER:** 3002511728

SPUD DATE: 7/21/58

KB: 3084' GL: TD: 8125' PBTD: 7775'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"	48#		544'	550 sxs cmt, circ
9-5/8"	36#	J-55	3320'	1300 sxs cmt, circ
7"	23#	J-55/N-80	8050'	950 sx cmt, (TOC @ 3290' - TS)

LOGS:

Date	Company	Log Name
8/29/58	Schlumberger	GR-N, ML, IES

DST's:

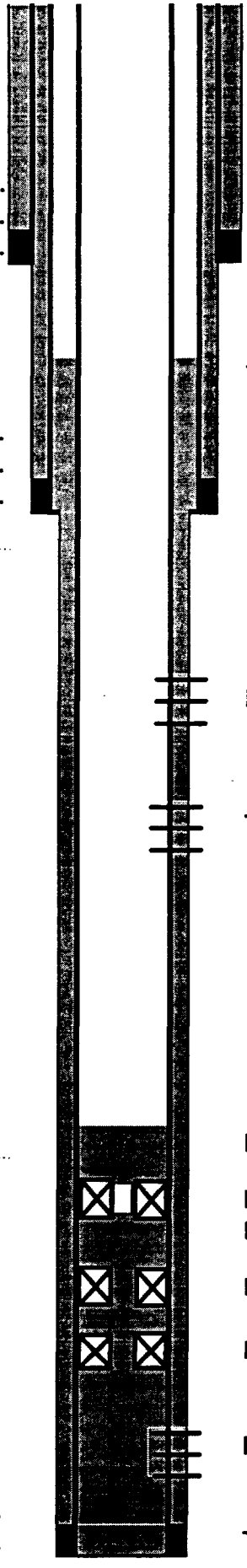
INITIAL COMPLETION: IP Ellenburger (8050-8125' OH), F 676

INITIAL COMPLETION DATE: 9/5/58

TREATMENTS AND WORKOVERS

1-60	Recomplete as dual Montoya - Ellenburger
4-63	Plug off water, Ellenburger
11-63	Install P.E. Montoya
5-65	Install gas lift Ellenburger
3-66	P&A Ellenburger
11-67	Install P.E. Montoya

WELLBORE SCHEMATIC



South Justis Unit G #22

(Texaco A. B. Coates C #16)
760' FSL & 2030' FEL (O)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3081'
Spudded 09/08/58
Completed 11/02/58

17-1/2" Hole.
13-3/8" casing @ 535'.
Set w/550 sxs cmt. Circ.

TOC @ 2000' by TS

12-1/4" Hole.
9-5/8" casing @ 3312'.
Set w/1100 sxs cmt. Circ.

Blinebry Perfs @ 5060' to 5540'

Tubb/Drinkard Perfs 5763' to 5932'

PBD @ 7140'

Baker "DR" Plug @ 7150'
Baker "D Pkr @ 7150'

Baker "D" Pkr @ 7184'

Baker "D" Pkr @ 7198'

McKee Perfs @ 7480' to 7605'

8-3/4" hole.
7" csg @ 7650' w/1050 sxs cmt.

TD @ 7650'.

SOUTH JUSTIS UNIT "G" #22

LOCATION: 760' FSL & 2030' FEL (O), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: TEXACO

FORMER WELL NAME: A. B. COATES "C" #16

BLM TRACT NUMBER: 12 **API NUMBER:** 3002511738

SPUD DATE: 9/8/58

KB: 3081' GL: TD: 7650' PBTD: 7140'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			535'	550 sxs cmt, circ
9-5/8"			3312'	1100 sxs cmt, circ
7"			7650'	1050 sxs cmt, (TOC @ 2000' - TS)

LOGS:

Date	Company	Log Name
10/10/58	Schlumberger	GR-N, ML

DST's:

INITIAL COMPLETION: IP Dual - McKee (7480-7605'), F 56, A/500
Drinkard (5900-32') A/1000 gals, F-112 BO, 0 BW, 486 GOR

INITIAL COMPLETION DATE: 11/2/58

TREATMENTS AND WORKOVERS

5-61	Frac McKee
12-63	Install P.E. McKee
11-64	Drinkard A/2000, 250 BO/53 BW/Swabbed (5-hr test)
12-64	Install P.E.Drinkard 74 BO/12 BW/GOR 4095/P

SOUTH JUSTIS UNIT "G" #22

2-72	Drinkard - Add. Perf 5763-5882', A/5000, 11 BO/21 BW/ GOR 19,909/P
12-74	Perf'd Blinebry 5060-5540'. A/3500 gals. F/104/104, F 52 BO, 38 BW, GOR 14,711. Dual w/Drinkard 5763-5932'
12-75	DHC Blinebry & Drinkard

A. B. COATES "C" #26

LOCATION: 330' FSL & 1650' FEL (O), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: TEXACO

BLM TRACT NUMBER: 12 **API NUMBER:** 3002521427

SPUD DATE: 5/14/65

KB: 3081' GL: TD: 5650' PBTD: 5517'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
7-5/8"	2.6#		903'	400 sxs cmt, circ
4-1/2"	11.6#		5649'	1100 sxs cmt,(TOC @ 2000' by TS)

LOGS:

Date	Company	Log Name
6/1/65	Schlumberger	Sonic, LL, MLL

DST's:

INITIAL COMPLETION: IP Blinebry (5342-5463'), A/1500, F/24/48, 144 BO/1 BW/205 MCF/F

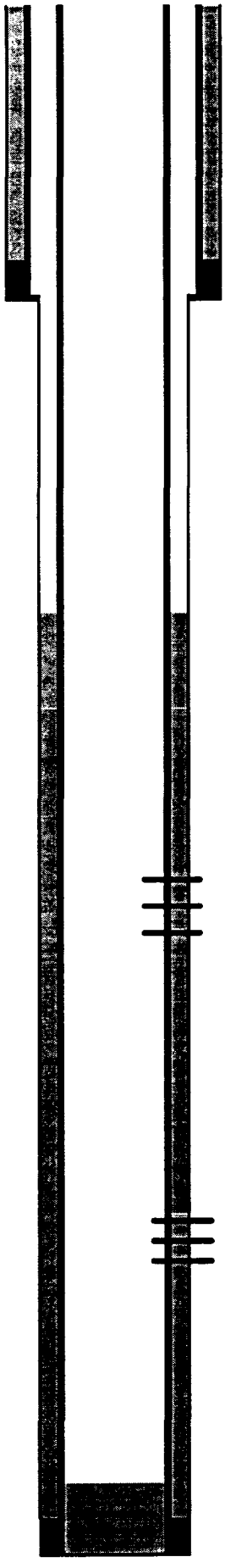
INITIAL COMPLETION DATE: 6/12/65

TREATMENTS AND WORKOVERS

9-75 Install P.E.

9-80 Blinebry 5342-5463' A/3000
Add Perf Blinebry 4986-5291', A/5000, F/26/41
Blinebry 4986-5463', Test: 5 BO/12 BW/75 MCF/P

WELLBORE SCHEMATIC



A. B. Coates C #26

Texaco
330' FSL & 1650' FEL (O)
Sec. 24, T-25S, R-37E, Lea Co., NM
KB 3081'
Spudded 05/14/65
Completed 06/12/65
Shut-In

11" hole.
7-5/8" casing @ 903'.
Set w/400 sxs cmt. Circ.

TOC @ 2000' by TS.

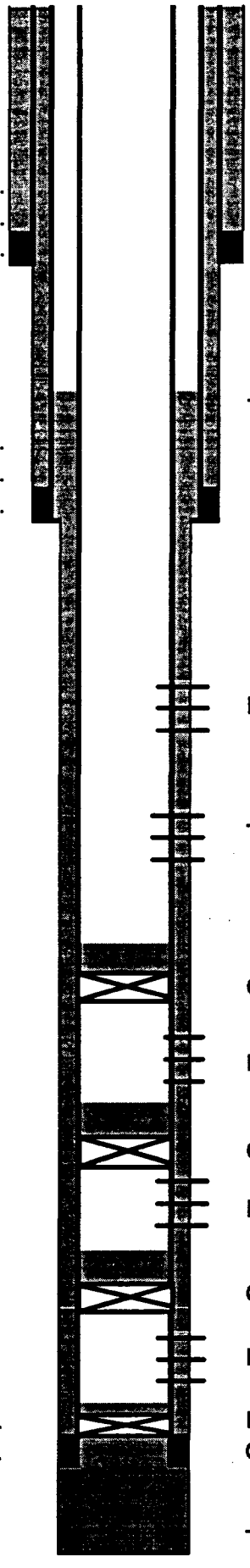
Blinebry perfs @ 4986' to 5291'.

Blinebry Perfs @ 5342' to 5463'.

6-1/4" hole.
4-1/2" csg @ 5649' w/1100 sxs cmt.

PBD @ 5517'.
TD @ 5650'.

WELLBORE SCHEMATIC



South Justis Unit H #22

(Texaco A. B. Coates C #19)
990' FSL & 990' FEL (P)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3070'
Spudded 01/25/59
Completed 03/14/59

17-1/2" Hole.
13-3/8" casing @ 540'.
Set w/550 sxs cmt. Circ.

TOC @ 3000' by TS

12-1/4" Hole.
9-5/8" casing @ 3326'.
Set w/1100 sxs cmt. Circ.

Blinebry Perfs @ 5200' to 5542'

Tubb/Drinkard Perfs 5776' to 5940'

CIBP @ 6800' w/10' cmt

Montoya Perfs @ 6858' to 6898'

CIBP @ 6787' w/10' cmt

McKee Perfs @ 7326' to 7375'

CIBP @ 7625' w/10' cmt

Ellenburger Perfs @ 7736' to 7770'

8-3/4" hole.
7" csg @ 7847' w/700 sxs cmt.

PBD @ 7828'
Cement Retainer @ 7835'

TD @ 7940'.

SOUTH JUSTIS UNIT "H" #22

LOCATION: 990' FSL & 990' FEL (P), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: TEXACO

FORMER WELL NAME: A. B. COATES "C" #19

BLM TRACT NUMBER: 12 **API NUMBER:** 3002511741

SPUD DATE: 1/25/59

KB: 3070' GL: TD: 7940' PBTD: 6790'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			540'	550 sxs cmt, circ
9-5/8"			3326'	1100 sxs cmt, circ
7"			7847'	700 sxs cmt-(TOC @ 3000'-TS)

LOGS:

Date	Company	Log Name
3/3/59	Schlumberger	GR-N, IES, ML

DST's:

INITIAL COMPLETION: IP Dual Ellenburger (7847-7940' OH), F 481 BO
McKee 7326-7375', F 218 BO, SOF/1010

INITIAL COMPLETION DATE: 3/14/59

TREATMENTS AND WORKOVERS

9-62 Install P.E. McKee

1-69 Plugback Ellenburger

9-71 Plug off McKee & Ellenburger, Test Montoya
Recomplete Dual - Blinebry 5200-5542', A/1500, F/60/90
109 BO/18 BW/ GOR 1183/F
Tubb/Drinkard 5776-5940', A/5000, F/30/30
53 BO/38 BW/GOR 1717/F

9-74 *Down hole Commingle Blinebry & Tubb Drinkard

WELLBORE SCHEMATIC

South Justis Unit H #220

(Texaco A. B. Coates C #23)
330' FSL & 330' FEL (P)
Sec 24, T-25S, R-37E, Lea Co., NM
KB-3085'
Spudded 08/04/60
Completed 10/16/60

17-1/2" Hole.
13-3/8" casing @ 535'.
Set w/550 sxs cmt. Circ.

TOC @ 590' by TS

TOC @ 2185' by TS

12-1/4" Hole.
9-5/8" casing @ 2366'.
Set w/1100 sxs cmt.

2-3/8" PVC tubing @ 5000'
Otis Interlock Packer @ 5000'

Blinebry Perfs @ 5192' to 5480'

Tubb/Drinkard Perfs @ 5700' to 5924'

Proposed 4-1/2" Liner @ 5800' to 6100'
Present PBD @ 5945'
Present TD @ 5950'.

8-3/4" hole.
7" csg @ 5950' w/700 sxs cmt.

Proposed TD @ 6100'

SOUTH JUSTIS UNIT "H" #220

LOCATION: 330' FSL & 330' FEL (P), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: TEXACO

FORMER WELL NAME: A. B. COATES "C" #23

BLM TRACT NUMBER: 12 **API NUMBER:** 3002511745

SPUD DATE: 8/4/60

KB: 3085' GL: TD: 5950' PBTD: 5945'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			535'	550 sxs cmt, circ
9-5/8"	36#	J-55	2366'	1100 sxs cmt, (TOC @ 590' - TS)
7"	23/29#	J-55/N-80	5950'	700 sxs cmt, (TOC @ 2185' - TS)

LOGS:

Date	Company	Log Name
9/1/60	Schlumberger	GR-N, IES, ML

DST's:

INITIAL COMPLETION: IP Dual - Blinebry (5338-5480'), A/1000, F/10/40
220 BO/1 BW/145 MCF/F
Tubb 5858-5924', A/6000, 177 BO/0 BW/165 MCF/F

INITIAL COMPLETION DATE: 10/16/60

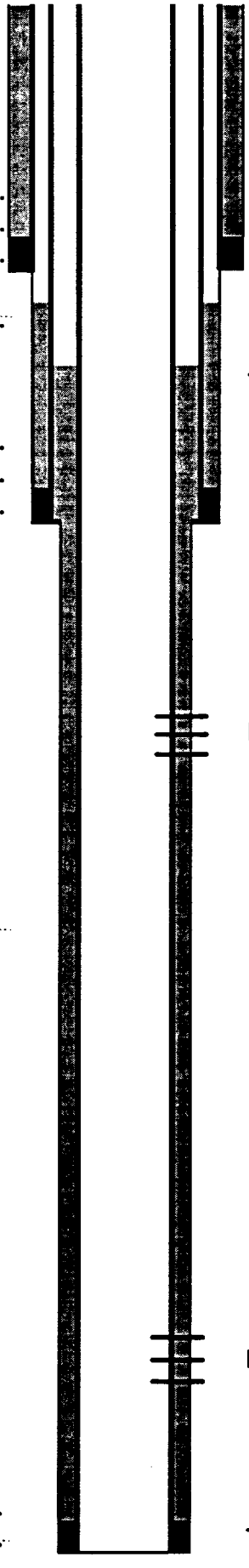
TREATMENTS AND WORKOVERS

11-64 Frac Tubb/Drinkard A/1000, F/20/20, A/1000,
11 BO/53 BW/GOR 3091/P - Prior test: 30 BO/0 BW/P

5-69 Add. Perf - Blinebry 5192-5480', A/1500 F/64/60
63 BO/64 BW/GOR 2818/P
Tubb/Drinkard 5700-5924', A/10,000, 29 BO/4 BW/8690 GOR/P

9-75 Downhole Commingle Blinebry & Tubb/Drinkard

WELLBORE SCHEMATIC



South Justis Unit H #23

(ARCO State Y #7)
430' FNL & 760' FEL (A)
Sec 25, T-25S, R-37E, Lea Co., NM
KB-3073'
Spudded 04/18/59
Completed 05/20/59

17-1/2" Hole.
13-3/8" casing @ 450'.
Set w/475 sxs cmt. Circ.

TOC @ 925' by TS.

TOC @ 2725' by TS.

12-1/4" Hole.
9-5/8" casing @ 3330'.
Set w/1700 sxs cmt.

Blinebry Perfs @ 5038' to 5405'

Montoya Perfs @ 6868' to 6960'

8-3/4" hole.
7" csg @ 6999' w/340 sxs cmt.

TD @ 7000'.

SOUTH JUSTIS UNIT "H" #23

LOCATION: 430' FNL & 760' FEL (A), SEC. 25, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: STATE "Y" #7

BLM TRACT NUMBER: 31 **API NUMBER:** 3002511775

SPUD DATE: 4/18/59

KB: 3073' GL: TD: 7000' PBTD: 6997'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"	48#	H-40	450'	475 sxs cmt, circ
9-5/8"	32.3/36#	H-40	3330'	1700 sxs cmt, (TOC @ 925'-TS)
7"			6999'	340 sxs cmt, (TOC @ 2725'-TS)

LOGS:

Date	Company	Log Name
5/16/59	Schlumberger	GR-N, ML

DST's:

1	5765-5865'	Tubb	GTS 23" Rec OGCM
2	5860-5940'	Drinkard	GTS 19", Rec FO

INITIAL COMPLETION:

INITIAL COMPLETION DATE: 5/20/59

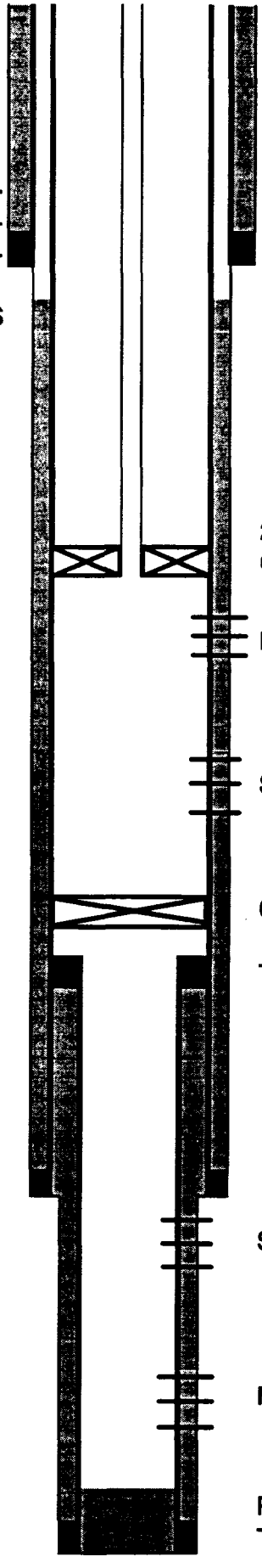
TREATMENTS AND WORKOVERS

5-59	Perf Montoya 6930-60' (4 spf). Perf Blinebry 5366-73', 82', 88', 5399-5405', 14-32', A/Blinebry/1000. A/Blinebry/5000. OPT Blinebry 418 BOPD, Montoya 363 BOPD
8-62	Blinebry on Kobe pump

SOUTH JUSTIS UNIT "H" #23

12-64	A/Montoya/1250
1-65	Montoya on Kobe pump
4-68	Frac Blinebry 30/30 SOF. Perf Blinebry 5205', 06', 07', 09', 10', 34', 65', 5320', 22', 24', 25'. A/5205-5325'/250 + 1000 SOF/20/24. A/Montoya/7000
4-72	Drilled out scale stringers in Montoya. A/Montoya/5000, Perf Blinebry 5038', 42', 44', 48', 54', 56', 62', 70', 86', 92', 95', 97', 5101', 03', 05', 40', 5142'. A/1000, F/25/25
2-78	Perf Montoya/6868-78', (spf). A/6930-60/2000. A/6868-78/500. A/Blinebry 5038-5432'/3000 of 60/40 15% HCl/Xylene.
4-87	Acidize Montoya (6868-6960') w/6000 gals. Acidize Blinebry (5038-5432') w/9000 gals Downhole commingled Blinebry and Montoya IPP 33 BOPD, 130 BWPD, 122 MCFD

WELLBORE SCHEMATIC



South Justis Unit H #230

(ARCO State Y #9)
990' FNL & 990' FEL (A)
Sec 25, T-25S, R-37E, Lea Co., NM
KB-3081'
Spudded 02/10/61
Completed 03/18/61

12-1/4" Hole.
9-5/8" casing @ 798'.
Set w/550 sxs cmt. Circ.

TOC @ 850' by TS

2-3/8" PVC tubing @ 5000'
Otis Interlock Packer @ 5000'

Blinebry & Tubb/Drinkard Perfs @ 5100' to 6100'

Sqzd Tubb/Drinkard Perfs @ 5816' to 5921'

CIBP @ 6130'

Top of 4-1/2" Liner @ 6140'

8-3/4" Hole.
7" casing @ 6200'.
Set w/1800 sxs cmt.

Sqzd Fusselman Perfs @ 6752' to 6797'

Montoya Perfs @ 6834' to 6880'

6-1/4" Hole.
4-1/2" Liner @ 6905' w/70 sxs cmt.

PBD @ 6890'
TD @ 6908'.

STATE "Y" #9

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

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

BLM TRACT NUMBER: 31 **API NUMBER:** 3002511777

SPUD DATE: 2/10/61

KB: 3081' GL: 3069' TD: 6908' PBTD: 6890'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"	32.3/36#		798'	550 sxs cmt, circ
7"	20/23#		6200'	1800 sxs cmt, circ
4-1/2"	11.6#		6905'	70 sxs cmt, (TOL @ 6140' - TS)

LOGS:

Date	Company	Log Name
3/15/61	Welex	GR-N & Caliper
3/23/61	Welex	CCL
1/23/62	Welex	Differential Temp Svy
8/16/62	Welex	CCL

DST's:

1	4880-4925'	Paddock	Op 1 hr, rec'd 70' GCM, FP 75-85, 30" FSIP-125
2	4926-90'	Paddock	Op 1 hr, rec 35' mud, NS, FP 60-65, 30" FSIP-80
3	6730-55'		Op 1 hr 15 min, GTS 3 min, Oil 25 min, Flwd 28 BOPH-180#, rec 90' oil, 500' XW, FP 870-1218, 30" FSIP-2085
4	6753-6805'	Fusselman	Op 2 hr, GTS 4 min, oil 28 min, rec 90' G&WCM, FP 68-1780, 60" FSIP - 2220

INITIAL COMPLETION: Tubb/Drinkard 5816-5921' - 283 BO, 85 BW, TP 1100#
Fusselman 6752-70', 256 BO, 1 BW, Tp 50#

STATE "Y" #9

INITIAL COMPLETION DATE: 2/10/61

TREATMENTS AND WORKOVERS

3-61 Perf'd Tubb/Drinkard 5816-5921', Frac'd w/15,000 gals RO + 15,000# sd - 134 BPM, MXP 5500#, F 283 BO, 85 BW, CP 1400, TP 1100
Perf'd Fusselman 6752-70' w/4 spf
IP F 256 BO, 1 BW, TP 50#

5-61 Acidized Fusselman w/3500 gals gelled acid. Swabbed 53 BO, 0 BW - 6 hrs.

7-61 Installed Kobe pump IPP 80 BOPD

6-62 Added Fusselman perfs 5774-79', 82-84', 86-93' (4 spf). Acidized 6752-97' w/4000 gals 7-1/2% MCA acid. Pumped 3 BO & 1 BW

8-62 Acidized Fusselman w/1000 gals, Frac'd w/17,382 gals lease oil & 8900# 20/40 sand. 10-11 BPM, TP 5400-5500#. Re-perf'd Fusselman w/3-1/2" casing gun 6752-70' w/2 SPF.

10-62 Tubb/Drinkard IP - F 18 BO, 133 MCF, 4 BW, TP 150#
Fusselman IP - P 14 BO, 6 BW

12-63 Acidized Tubb/Drinkard 5889-5921' w/1000 gals 15% NEA, TP 2450#, 3.6 BPM. ISIP 1400#, 5 min SIP - vac. IP - F 70 BOPD, 834 MCFD, 10 BW - FTP 750#

5-69 Found holes in Fusselman tbg
Tubb/Drinkard - Swbd 12 BO, 4 BW
Fusselman - Pmpd 23 BO, 1 BW

7-71 Set FB pkr at 5726 & RBP @ 6000'. Sqzd Tubb/Drinkard perfs 5816-5921' w/76 sxs Class C cmt. Max pressure 3500#. DO cmt 5784-5919'. Acidized Fusselman perfs 6752-70' w/3000 gals 15% NEA. AIR 1.5 BPM, ATP 300#. ISIP 100# vac - 1/2 min. IP - P 20 BO & 22 BW, Tubb/Drinkard P&A'd.

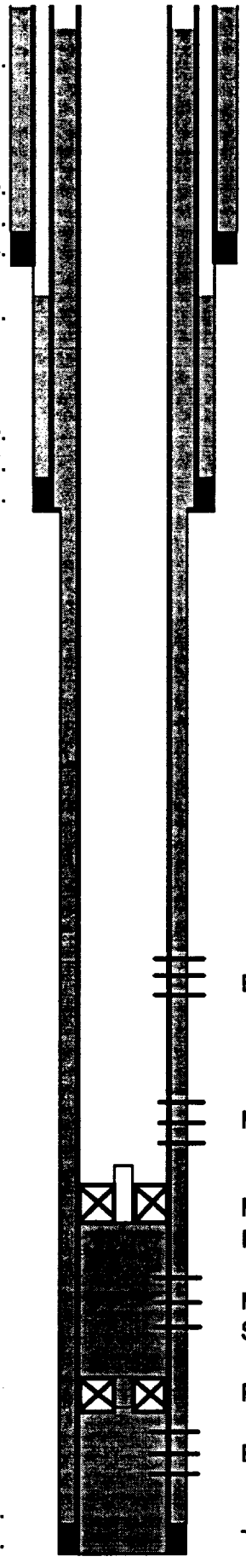
8-76 Perf'd 6748-97' & pumped 300 sx to repair csg leak. Pumped into old Tubb/Drinkard perfs 5816-5918' at 3-1/4 BPM 2000#, Sqzd w/150 sx, Mx P 2800#, DO cmt 5747-5929' & 6665-6890'. PBD 6890'. Perf'd Montoya 6834-38', 6849-56', 6868-80' w/1 spf (26 holes) communicated w/Fuss perfs 6748-97'. Re-sqzd Fusselman perfs & Montoya perfs (6834-38') w/175 sxs cmt, MXP 3500#. DO cmt to 6834'. Acidized Montoya perfs 6834-80' w/1000 gals 15% NEA. No communication. Acidized 6834-80' w/1932 gals 15% NEA, MXP 2800#, 2 BPM. Communicated to 6748-97'. Set pkr @ 6684' & ran Kobe hydraulic

9-76 Pump. IP P 56 BO, 26 MCF, 79 BW

10-79 Removed hydraulic pump. Ran beam P.U. & rod pump. Acidized w/2000 gals 15% NEA. 2 BPM -1000#.

1-88 Acidized Montoya 6834-80' w/1500 gals 15% NEA down casing. IP P 8 BO, 15 BW, 14 MCF

WELLBORE SCHEMATIC



TOC @ 220' by TS.

17-1/2" Hole.
13-3/8" casing @ 590'.
Set w/500 sxs cmt. Circ.

TOC @ 940' by TS.

12-1/4" Hole.
9-5/8" casing @ 3350'.
Set w/1200 sxs cmt.

South Justis Unit G #23

(ARCO State Y #3)
330' FNL & 1650' FEL (B)
Sec 25, T-25S, R-37E, Lea Co., NM
KB-3085'
Spudded 03/26/58
Completed 05/05/58

Blinebry Perfs @ 5118' to 5530'

Montoya Perfs @ 6821' to 6883'

Model D Packer @ 7570'
PBD @ 7570'

McKee Perfs @ 7701' to 7749'
Sqzd w/100 sxs cmt

Plug Set in Packer @ 8111' w/30' cmt

Ellenburger Perfs @ 8143' to 8205'.

8-3/4" hole.
7" csg @ 8350' w/1800 sxs cmt.

TD @ 8350'.

SOUTH JUSTIS UNIT "G" #23

LOCATION: 330' FNL & 1650' FEL (B), SEC. 25, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: STATE "Y" #3

BLM TRACT NUMBER: 31 **API NUMBER:** 3002511771

SPUD DATE: 3/26/58

KB: 3085' GL: 3079' TD: 8350' PBTD: 7570'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"	48#	H-40	590'	500 sxs cmt, circ
9-5/8"	32.3 & 36#	J-55	3350'	1200 sxs cmt, (TOC @ 940'-TS)
7"	20 & 23#	J-55 & N-80	8350'	1800 sxs cmt, (TOC @ 220' - TS)

LOGS:

Date	Company	Log Name
12/3/58	Schlumberger	GR-N, IES, ML

DST's:

INITIAL COMPLETION: Montoya 6821-83' (4 spf), A/1000 gals, Flwd 202 BOPD
Ellenburger 8143-8205' (4 spf), A/1000 gals, Flwd 267 BOPD, FTP 1041#

INITIAL COMPLETION DATE: 12/23/58

TREATMENTS AND WORKOVERS

2-60 Ran 1" Kobe tbg w/pump set @ 8105.39' RKB w/SN @ 8105.26', Montoya zone pump installation.

SOUTH JUSTIS UNIT "G" #23

2-62 Ellenburger zone was P&A 1/22/62 w/latching type DR plug set in Baker 415-D Pkr @ 8111', 30' of cmt placed on top of pkr. McKee zone was block squeezed cmtd thru perfs @ 7751' & 7654-57'. McKee was perf 7701-05' & 7717-49' GR & frac'd w/16,000 gals oil & 19,600# 20/40 sand. McKee zone was squeeze cmtd w/100 sxs neat cmt. Left cmt inside 7" csg from (New PBD) 7570-7749'. The Blinebry zone was then block squeeze cmtd thru perfs @ 5370-72' w/230 sxs reg & perfs 5304-06' w/190 sxs reg poz mix. Drld cmt out. Perf 5346-53' GR w/4 JSPF. Trtd 5346-53 perfs w/250 gals mud acid & 12,000 gals oil w/15,000# 20/40 sand. Perf 5281-90' GR w/4 JSPF, trtd these perfs w/250 gals mud acid & 12,000 gals oil w/15,000# 20/40 sand. Lowered BP & full bore pkr to 7300'. Set Baker 415 pkr @ 6750' on WL. Ran completion assembly for Blinebry-Montoya dual well. Montoya tbg 230 jts w/Kobe shoe & Baker locator sub @ 6736.42'. Set in Baker pkr @ 6747.83'. Ran Blinebry tbg 179 jts 2-3/8" CS Hydril w/SN @ 5222.56' tbg bottomed @ 5233.96'

10-63 Ran 261 jts 1" N-80 Kobe tbg w/2-1/2" x 1-1/4" x 1" Kobe pump w/in-hole accessories. Total string 6742-46'. Set @ 6749-46' w/3000# on Kobe shoe.

12-67 Montoya perfs 6816-6878' trtd w/5000 gals 15% HCl. Trtmt down 2" tbg w/ATP of 1700#, AIR 6.5 BPM.

4-71 Ran Montoya tbg string 2-7/8" CS Hydril N-80, J-55 tbg set @ 6730.52' w/415-D pkr @ 6741.92'. RKB-THF 11.40. Ran Blinebry 2-3/8" CS Hydril tbg set @ 5197.10'.

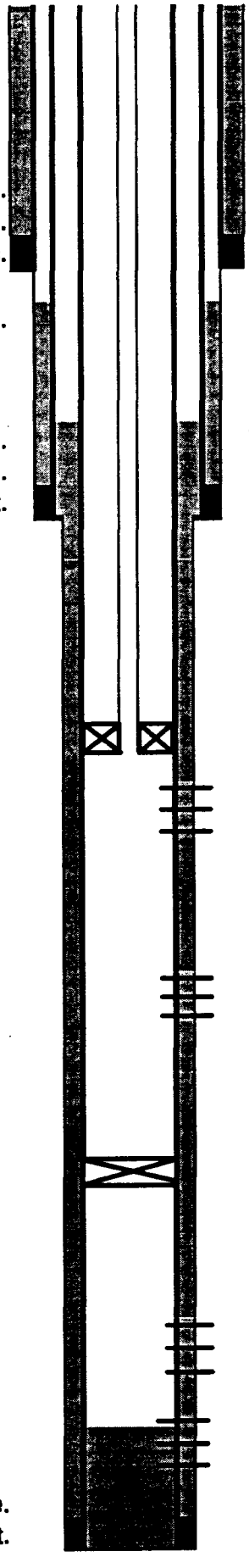
3-73 Laid down 261 jts 1" Kobe tbg & Kobe pump. Kld Montoya & Blinebry zone w/9# brine. POH w/179 jts 2-3/8" CS Hydril tbg & 230 jts 2-7/8" CS Hydril tbg. Perf'd 4 squeeze holes 5620-5621' & 3 squeeze holes 5000-5001'. WIH w/RBP and set @ 5900'. Squeezed perfs 5620-21' w/45 sxs Class C, left 5 sxs cmt in csg. Squeezed perfs 5000-5001' w/17 sxs Cl C, left 15 sxs cmt in csg, rev out 68 sxs cmt to pit. Re-squeezed perfs 5000-5001' w/93 sxs Cl C cmt., left 7 sxs cmt in csg. Perf'd Blinebry w/1 0.36" JS ea @ 5118', 20', 22', 35', 37', 62', 64', 66', 87', 89', 91', 5234', 36',45', 5418', 60', 69', 79', 83', 96', 5504' & 5530' (GR-NO. Trtd perfs 5418-5530' w/total of 1000 gal 15% HCL. Trtd perfs 5118-5245 w/total of 1000 gal 15% HCL. Frac'd perfs 5118-5530 w/total of 40,000# 20/40 sd in 40,000 gal 9# brine. Trtd existing Montoya perfs 6821-6883' w/1000 gal 15% HCL. POH w/RBP. WIH w/230 jts 2-7/8" CS Hydril tbg landed in 415-D pkr @ 6751.66'. WIH w/Blinebry tbg 179 jts 2-3/8" CS Hydril N-80 tbg set @ 5233.91'. WIH w/2-1/2" x 1-1/4" x 1-1/8" Kobe pump on 261 jts 1" IOR N-80 Kobe tbg. Started Montoya zone to pumping.

9-76 Set pump w/4000# wt & started well to pumping @ 60 SPM.

2-87 Blinebry & Montoya commingled downhole

4-87 Pushed Model "D" pkr to 7570'
A/Blinebry w/10,000 gals

WELLBORE SCHEMATIC



South Justis Unit G #230

(ARCO State Y #5)
990' FNL & 2308' FEL (B)
Sec 25, T-25S, R-37E, Lea Co., NM
KB-3075'
Spudded 01/26/59
Completed 03/02/59

17-1/2" Hole.
13-3/8" casing @ 600'.
Set w/600 sxs cmt. Circ.

TOC @ 685' by TS.

12-1/4" Hole.
9-5/8" casing @ 3329'.
Set w/1609 sxs cmt.

TOC @ 3175' by TS.

2-3/8" PVC tubing @ 5000'
Otis Interlock Packer @ 5000'

Blinebry & Tubb/Drinkard Perfs @ 5100' to 6100'

Sqzd Drinkard Perfs @ 5870' to 5896'

Plug @ 6200'

Fusselman Perfs @ 6766' to 6780'.

Sqzd Fusselman Perfs @ 6785' to 6838'

8-3/4" hole.
7" csg @ 6872' w/430 sxs cmt.

PBD @ 6789'
TD @ 6872'.

SOUTH JUSTIS UNIT "G" #230

LOCATION: 990' FNL & 2308' FEL (B), SEC. 25, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: STATE "Y" #5

BLM TRACT NUMBER: 31 **API NUMBER:** 3002511773

SPUD DATE: 1/26/59

KB: 3075' GL: TD: 6872' PBTD: 6789'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			600'	600 sxs cmt, circ
9-5/8"			3329'	1609 sxs cmt, (TOC @ 685 - TS)
7"			6872'	430 sxs cmt, (TOC @ 3175' - TS)

LOGS:

Date	Company	Log Name
2/25/59	Schlumberger	GR-N, ML

DST's:

1	5786-5822'	Fusselman	Oil to surface

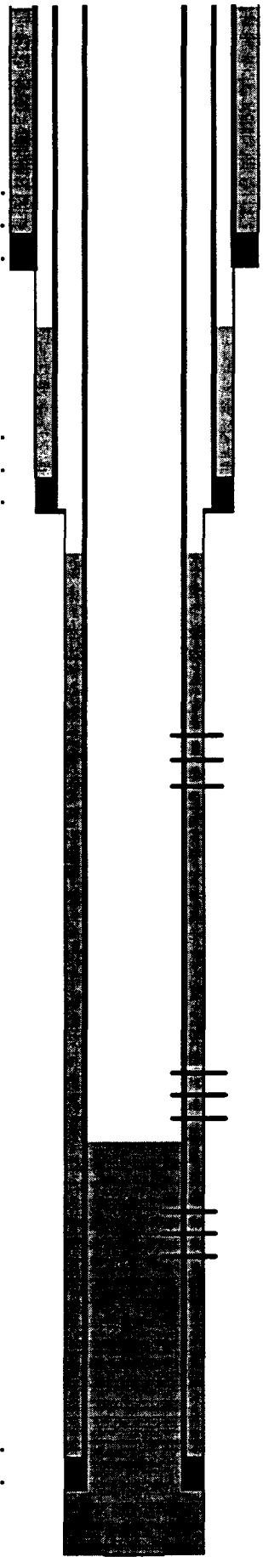
INITIAL COMPLETION: IP 367 BOPD, A/1000, perfs 6798-6838'
IP 183 BOPD, MA/1000, perfs 5870-96'

INITIAL COMPLETION DATE: 3/2/59

TREATMENTS AND WORKOVERS

7-76	Squeezed all perfs in Drinkard & Fusselman
7-76	Perf'd 6766-6780' (Fuss), IP 100 BOPD (swbg) Est. WOC @ 3730'

WELLBORE SCHEMATIC



South Justis Unit F #23

(AHC/ARCO Ida Wimberley #5)
660' FNL & 2080' FWL (C)
Sec 25, T-25S, R-37E, Lea Co., NM
KB-3083'
Spudded 07/03/58
Completed 10/03/58

17-1/2" Hole.
13-3/8" casing @ 497'.
Set w/400 sxs cmt. Circ.

TOC @ 850' by TS

12-1/4" Hole.
9-5/8" casing @ 3269'.
Set w/1500 sxs cmt.

TOC @ 3895' by TS

Sqzd Tubb/Drinkard Perfs 5134' to 5553'

Fusselman Perfs @ 6748' to 6747'

PBD @ 6875'

Sqzd Fusselman Perfs @ 6906' to 6994'

8-3/4" hole.
7" csg @ 8235' w/1550 sxs cmt.

TD @ 7578'.

SOUTH JUSTIS UNIT "F" #23

LOCATION: 660' FNL & 2080' FWL (C), SEC. 25, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: AHC/ARCO OIL AND GAS COMPANY

FORMER WELL NAME: IDA WIMBERLEY #5

BLM TRACT NUMBER: 51 **API NUMBER:** 3002511760

SPUD DATE: 7/3/58

KB: 3083' GL: 3073' TD: 7578' PBTD: 6875'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			497'	400 sxs cmt, circ
9-5/8"			3269'	1500 sxs cmt, (TOC @ 850' - TS)
7"			8235'	1550 sx cmt, (TOC @ 3895' - TS)

LOGS:

Date	Company	Log Name
8/10/58	Schlumberger	EL, ML

DST's:

1	Blinebry	5110-5210'	Op tool & had strong blow air; acid & gas to surf in 9 mins, gas flwd at rates between 35,754 CFPD and 56,116 CFPD while drill pipe pressure decreased from 19 psi to 17 psi during 4 hr test. Recovery above TC valve 4621' gas cut mud with strong sulfur odor. Recovery below TC valve: 30' gas in DP, 75' gas in 5 1/2" csg acid chamber, 14' acid & gas cut mud with strong sulf odor. HI 2510, HO 2510, ICIP 2048, IFP 178, FFP 178, 10 min BUP 357 psi, 20 min BUP 655 psi, 30 min BUP 894 psi & increasing
2	Blinebry	5210-5365'	Spotted 89 gal ac before test. Op tool & had strong blow air; acid & gas to surf in 3 mins; gas rate decreased from 392,190 to 187,550 CFPD while drill pipe pressures varied from 11 to 20 psi; total flow period 4 hrs. Recovery above TC valve: 3814'

SOUTH JUSTIS UNIT "F" #23

(DST #2 Cont'd)			gas in DP,140' acid & water cut drlg mud, 220' oil & gas cut drlg mud, 870' oil w/1% drlg mud, Gravity of oil = 35.7° API. Rec below TC valve: Est 10 gal acid wtr & oil & gas cut mud, 75' sl oil & gas cut mud. HI 2545 psi, HO 2505 psi, ICIP 2390 psi, IFP 370 psi, FFP 410 psi, 10 min BUP 785 psi, 20 min BUP 1295 psi, 30 min BUP 1575 psi
3	Blinebry	5365-5535'	Spotted 89 gal acid prior to test. Op tool & had strong blow air, decreased to weak blow in 9 min & continued throughout 4 hour flow period. Recovery above TC valve: 4572' gas in DP, 150' acid cut mud, 90' acid & gas cut mud, 367' heavy oil & gas cut mud (est. 50% oil). Rec below TC valve: 14' of 37.5° API oil w/25% mud in acid chamber. HI 2705, HO 2705, ICIP 1535, IFP 285, FFP 380, 10 min BUP 385, 20 min BUP 410, 30 min BUP 485.

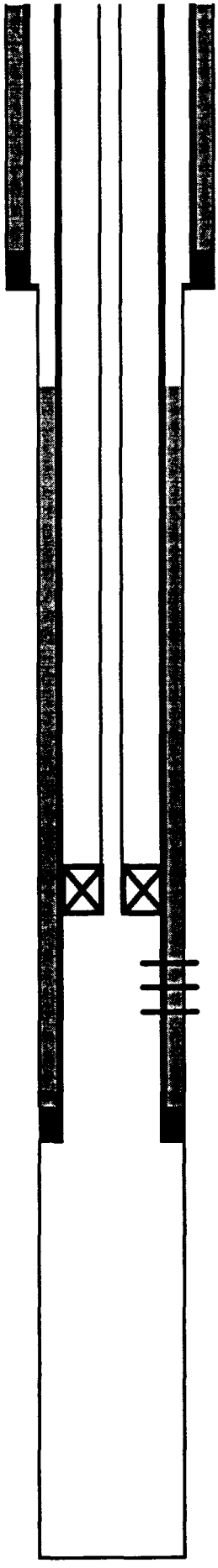
INITIAL COMPLETION: IP Flwd at rate of 441 BOPD, Gravity = 35.4° API, GOR = 542 SCF/STB. Perforated from 5860-5914', Drinkard Fusselman Perfs: 6906-94'

INITIAL COMPLETION DATE: 10/3/58

TREATMENTS AND WORKOVERS

8-58/9-58	Originally attempted completion in Blinebry formation thru perfs from 5134-5553'. Acidized perfs w/1000 gal 15%, sand-oil frac'd w/50,000 gal. refined oil and 50,000# sand. During testing produced approximately 1000 BO over load with gas rates from 3000 MCF to 4000 MCF per day. Could not locate and isolate gas entry, perfs squeezed & well completed in Drinkard & Fusselman.
5-5-72	Drinkard perfs squeezed with cmt, zone abandoned. Fusselman perfs from 6906-6994' squeezed w/cmt, drld cmt to 6875' and re-perf'd Fusselman from 6748-6847'

WELLBORE SCHEMATIC



South Justis Unit F #230

(AHC/ARCO Ida Wimberley #17)
990' FNL & 1650' FWL (C)
Sec. 25, T-25S, R-37E, Lea Co., NM
KB 3074'
Spudded 04/08/63
Completed 04/24/63

9-7/8" hole.
7-5/8" casing @ 854'.
Set w/400 sxs cmt. Circ.

TOC @ 2005' by TS.

2-3/8" PVC tubing @ 5000'
Otis Interlock Packer @ 5000'

Blinebry perfs @ 5100' to 5400'.

6-3/4" hole.
4-1/2" csg @ 5499'w/900 sxs cmt.

Present TD @ 5500'

Proposed Deepening to 6100'

Proposed TD @ 6100'.

SOUTH JUSTIS UNIT "F" #230

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

FORMER OPERATOR: AHC/ARCO IDA WIMBERLEY #17

FORMER WELL NAME:

BLM TRACT NUMBER: 51 **API NUMBER:** 3002520014

SPUD DATE: 8/27/58

KB: 3074' GL: TD: 5500' PBTD: 5455'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
7-5/8"			854'	400 sxs cmt, circ
4-1/2"			5499'	900 sxs cmt, (TOC @ 2005'-TS)

LOGS:

Date	Company	Log Name
4/23/63	Schlumberger	Sonic, LL, MLL

DST's:

INITIAL COMPLETION: Perf'd 5356-5432', Blinebry, Acidized w/500 gal 15% NE acid, frac'd w/20,000 gal refined oil & 16,000# 20-40 sd IP: Flwd at rate of 241 BOPD, Gravity 36.4° API, GOR 1230 SCF/STB

INITIAL COMPLETION DATE: 4/24/63

TREATMENTS AND WORKOVERS

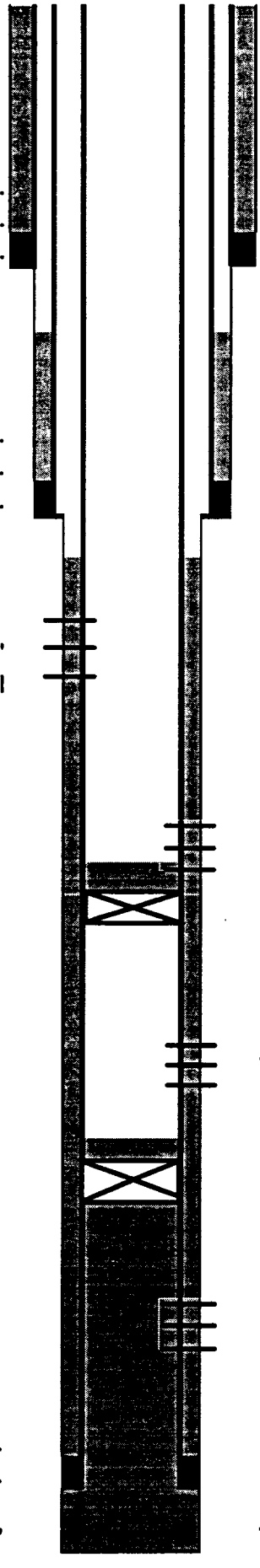
5-7-68 Added perfs from 4964-5343', Acidized perfs from 4964-5432' w/2000 gal 15% NE acid. Frac'd perfs w/120,000 gal gelled brine & 180,000# 20-40 sand

10-6-85 Status changed from flowing to pumping oil well

SOUTH JUSTIS UNIT "F" #230

10-24-85 Repaired parted 7-5/8" casing located 6' from surface. BP in 4-1/2" casing knocked loose and pushed to 5455'.

WELLBORE SCHEMATIC



South Justis Unit E #23

(AHC/ARCO Ida Wimberley #7)
660' FNL & 990' FWL (D)
Sec 25, T-25S, R-37E, Lea Co., NM
KB-3078'
Spudded 09/21/58
Completed 10/24/58
SWD by NMOCC Adm Order SWD-181

TOC @ 1125' by TS

17-1/2" Hole.
13-3/8" casing @ 497'.
Set w/400 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3277'.
Set w/1500 sxs cmt.

TOC @ 3225' by TS

San Andres Perfs @ 4068' to 4180'
Recompleted as SWD Well

Sqzd Tubb/Drinkard Perfs 5740' to 5832'
PBD @ 5790'
CIBP @ 5800' w/10' cmt on top

Tubb/Drinkard Perfs @ 5856' to 5928'

CIBP @ 6160' w/10' cmt on top

Fusselman Perfs @ 6884' to 6919'

8-3/4" hole.
7" csg @ 6937' w/465 sxs cmt.

Sqzd Fusselman OH @ 6937' to 7000'

TD @ 7000'.

SOUTH JUSTIS UNIT "E" #23

LOCATION: 660' FNL & 990' FWL (D), SEC. 24, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: AHC/ARCO OIL AND GAS COMPANY

FORMER WELL NAME: IDA WIMBERLEY #7

BLM TRACT NUMBER: 51 **API NUMBER:** 3002511761

SPUD DATE: 9/24/58

KB: 3078' GL: TD: 7000' PBTD: 5790'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			497'	400 sxs cmt, circ
9-5/8"			3277'	1500 sxs cmt, (TOC @ 1125' by TS)
7"			6937'	465 sxs cmt , (TOC @ 3225' by TS)

LOGS:

Date	Company	Log Name
10/20/58	Schlumberger	IE, ML

DST's:

INITIAL COMPLETION: IP Flwd 69.5 BOPD, Gravity 37.3° API, GOR = 632 SCF/STB
OH from 5856-5869' and 5878-5928' Drinkard

INITIAL COMPLETION DATE: 10/24/58

TREATMENTS AND WORKOVERS

9-25-61 Added perfs in Drinkard from 5740-5832', acidized w/3000 gal retarded ac

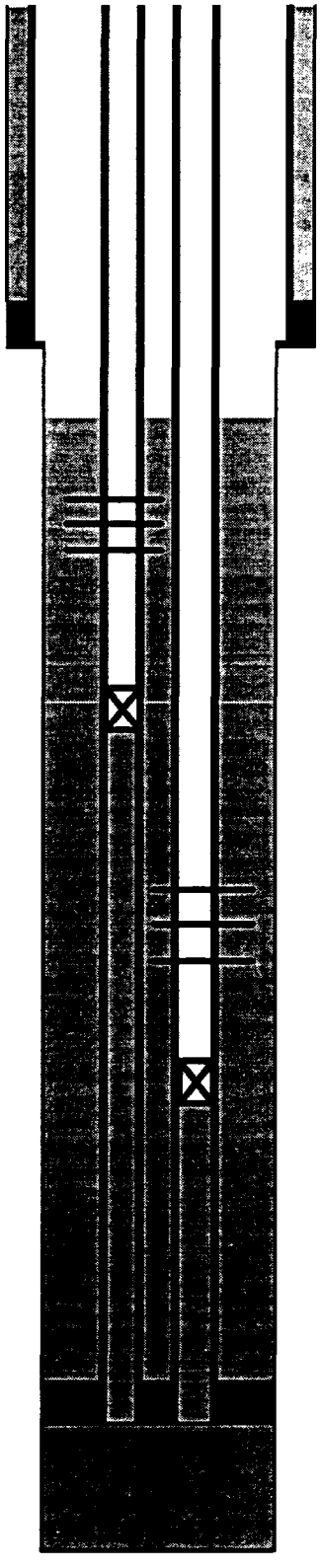
11-63/1-64 Sqzd OH from 6937-7000' w/400 sx cmt, selectively perf'd 7" csg & OH from 6884-6919'. Sqzd Drinkard perfs from 5740-5832' w/600 sx cmt. Sand-oil frac'd remaining Drinkard perfs from 5826-5928' w/14,112 gal refined oil, 19,000# sand & 500 gal 15% NE acid.

5-24-68 Acidized Fusselman perfs from 6884-6919'. Frac'd Drinkard perfs from 5856-5928' w/1000 gal 15% NE acid, 42,000 gal gelled brine & 31,000# 20-40 frac sand.

SOUTH JUSTIS UNIT "E" #23

2-17-77 Pulled both tbg strings, left approx 248' tbg in hole w/top of fish at 6176'. Set BP @ 6160' w/10 sx cmt on top, Fusselman zone abandoned. Set BP @ 5800' w/10 sxs cmt on top. Drinkard zone abandoned. Perforated San Andres from 4068-4180' & acidized with 4500 gal 20% HCL NE acid, recompleted as a salt water disposal well.

WELLBORE SCHEMATIC



Ida Wimberley #15

AHC/ARCO Oil and Gas Company
660' FNL & 330' FWL (D)
Sec 25, T-25S, R-37E, Lea Co., NM
KB-3075'
Spudded 03/05/63
Completed 03/21/63

11" Hole.
8-5/8" casing @ 854'
Set w/550 sxs cmt. Circ.

TOC @ 2098' by TS

7Rvrs Qn Perfs @ 2946' to 3177'

PBD @ 3182'

Blinebry perfs 5002' to 5434'.
TA'd

PBD @ 5461'

7-7/8" hole.
csg @ 5496' & 5507' w/1300 sxs cmt.

TD @ 5510'.

IDA WIMBERLEY #15

LOCATION: 660' FNL & 330' FWL (D), SEC. 25, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: AHC/ARCO OIL AND GAS COMPANY

BLM TRACT NUMBER: **API NUMBER:** 3002520036

SPUD DATE: 3/5/63

KB: 3075' GL: TD: 5510' PBTD: 5461'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"			854'	550 sxs cmt, circ
2-7/8"			5507'	1300 sxs cmt, (TOC @ 2098' - TS)
2-7/8"			5496'	1300 sx cmt

LOGS:

Date	Company	Log Name
3/19/63	Welex	Sonic, Guard, FoRxo

DST's:

INITIAL COMPLETION:

(String #1) Perforated 5363-5434' Blinebry. Acidized w/500 gal 15% NE ac, frac'd w/20,000 gal refined oil 7 16,000# 20-40 sd.
IP: Flwd 117 BO & 29 BWPD, Gravity 37.8° API, GOR 638 SCF/STB

(String #2) Perforated 2946-3177', Seven Rivers-Queen

INITIAL COMPLETION DATE: 3/21/63

TREATMENTS AND WORKOVERS

7-28-70 String #1 - Added Blinebry perfs from 5002-5188', acidized perfs from 5002-5434' w/10,000 gal 15% NE acid in 4 stages.

12-1-77 String #1 - Treated Blinebry perfs with 2,000 gal MOD 202 acid and 1,000 gal 2% kcl wtr mixed w/40 gal Protex-All

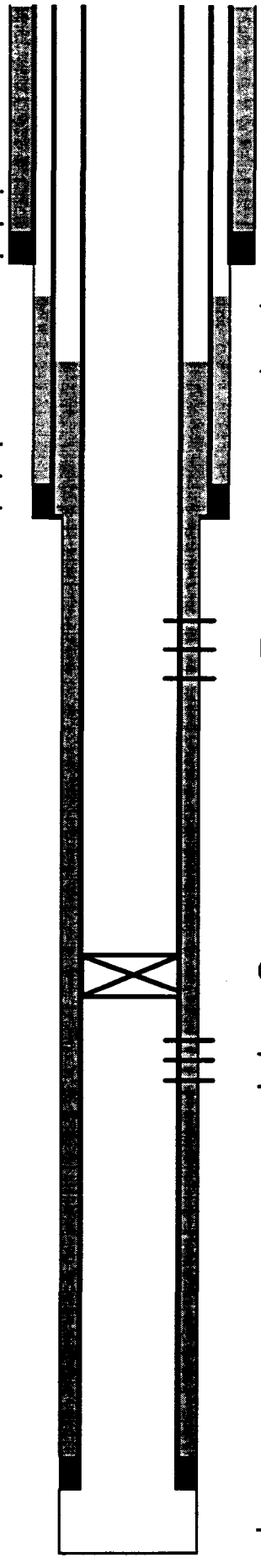
IDA WIMBERLEY #15

8-14-80 String #1 - Status changed from flowing to pumping oil well

3-23-83 String #1 - Blinebry completion TA'd

(Current Completion) String #1 - 5002-5434' Blinebry - TA'd
String #2 - 2946-3177' Seven Rivers-Queen, Gas well

WELLBORE SCHEMATIC



South Justis Unit E #24

(AHC/ARCO Ida Wimberley #9)
1650' FNL & 1980' FWL (E)
Sec 25, T-25S, R-37E, Lea Co., NM
KB-3072'
Spudded 02/04/59
Completed 03/14/59

17-1/2" Hole.
13-3/8" casing @ 511'.
Set w/400 sxs cmt. Circ.

TOC @ 1499' by TS

TOC @ 2886' By TS

12-1/4" Hole.
9-5/8" casing @ 3269'.
Set w/1500 sxs cmt.

Blinebry Perfs @ 4982' to 5444'

CIBP @ 5800'

Tubb/Drinkard Perfs @ 5861' to 5942'
TA'd 1970

8-3/4" hole.
7" csg @ 6050' w/675 sxs cmt.

TD @ 7105'.

SOUTH JUSTIS UNIT "E" #24

LOCATION: 1650' FNL & 1980' FWL (E), SEC. 25, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: AHC/ARCO OIL AND GAS COMPANY

FORMER WELL NAME: IDA WIMBERLEY #9

BLM TRACT NUMBER: 51 **API NUMBER:** 3002511763

SPUD DATE: 2/4/59

KB: 3072' GL: TD: 7105' PBTD: 5800'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			511'	400 sxs cmt, circ
9-5/8"			3269'	1500 sxs cmt, (TOC @ 1499' - TS)
7"			6050'	675 sx cmt, (TOC @ 2886' - TS)

LOGS:

Date	Company	Log Name
3/3/59	Schlumberger	IE, ML

DST's:

1	Blinebry	4982-5124'	Op tool & had good blow air; gas to surface in 6 min; gas rate decreased from 1,137,000 to 723,000 CFPD while drill pipe pressure decreased from 320 to 300 psi during 4 hour test. Rec'd 510' black sulf wtr, est. 3% mud. HI 2292, HO 2268, IFP 336, FFP 527, 10 min BU 2235, 20 min BU 2268, 30 min BU, 2268
2	Blinebry	5124-5274'	Op tool & had good blow air; gas to surf in 3 min; gas rate increased from 11,001 to 13,155 CFPD while drill pipe pressure varied from 4 to 10 psi during 4 hr test. Rec'd 250' of gas cut mud
3	Blinebry	5274-5424'	Op tool & had fair blow air; gas to surf in 1 hr 10 min; gas rate increased from 2644 to 2800 CFPD while drill pipe pressure varied from 2.5 to 3.5 psi during 4 hr test. Rec'd 240' of oil & gas cut mud, est. 10% oil. HI 2655, HO 2655, IFP 146, FFP 200, 10 min. BUP 314 psi, 20 min BUP 484 psi, 30 min BUP 680 psi & increasing.

SOUTH JUSTIS UNIT "E" #24

4	Blinebry	5424'5574'	Op tool & had weak blow air which continued for entire 4 hr test; no gas or liquid to surface. Rec'd 90' mud and 90' oil & gas cut mud, est. 6% oil. HI 2725, HO 2645, IFP 115, FFP 135, 10 min BUP 190, 20 min. BUP 260, 30 min BUP 330 psi & increasing

INITIAL COMPLETION: IP Flowed at rate of 421 BOPD, Gravity 35° API, GOR = 474 SCF/STB. Perforated from 5278-5444' - Blinebry formation
IP Flowed at rate of 252 BOPD, Gravity 35.3° API, GOR = 669 SCF/STB. Perforated from 5861-5909' and 5918-5942' - Drinkard formation

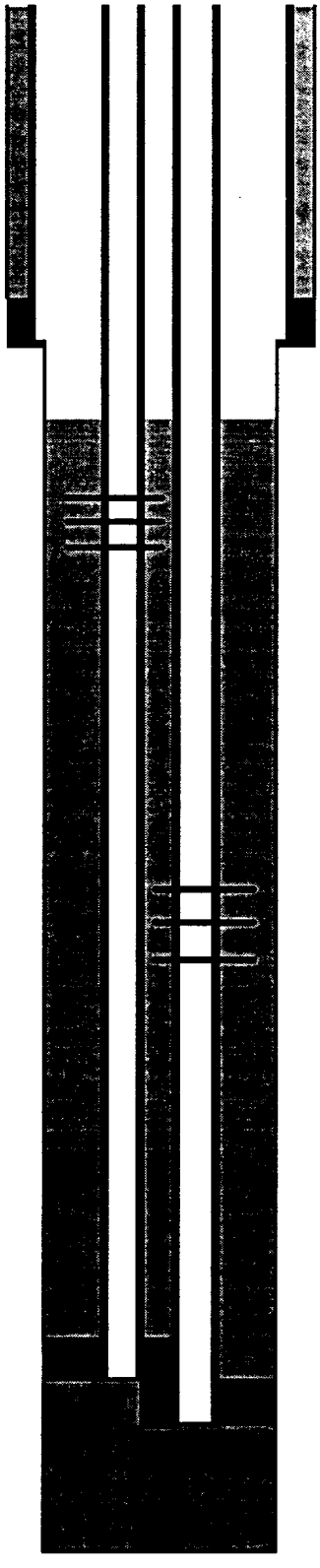
INITIAL COMPLETION DATE: 3/14/59

TREATMENTS AND WORKOVERS

12-14-62 Status of Drinkard completion changed from flowing to gas lift

3-7-70 Set plug at 5800' to TA Drinkard zone.
Added Blinebry perfs from 4998-5176'. Frac'd csg perfs from 4998-5444' w/60,000 gals of 9.3# gelled brine & 90,000# 20-40 sand

WELLBORE SCHEMATIC



Ida Wimberley #16

AHC/ARCO Oil and Gas Company
2310' FNL & 1650' FWL (F)
Sec 25, T-25S, R-37E, Lea Co., NM
KB-3068'
Spudded 03/23/63
Completed 04/06/63

11" Hole.
8-5/8" casing @ 853'
Set w/550 sxs cmt. Circ.

TOC @ 1946' by TS

7Rvrs Qn Perfs @ 3015' to 3220'

Blinebry perfs 5053' to 5442'.
TA'd 02/83

7-7/8" hole.
2-7/8" csg @ 5494' w/900 sxs cmt.

7-7/8" hole.
2-7/8" csg @ 6497'.

TD @ 5500'.

IDA WIMBERLEY #16

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

OPERATOR: AHC/ARCO OIL AND GAS COMPANY

BLM TRACT NUMBER: **API NUMBER:** 3002520139

SPUD DATE: 3/23/63

KB: 3068' GL: TD: 5500' PBTD:

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"			853'	550 sxs cmt, circ
2-7/8"			5497'	900 sxs cmt, (TOC @ 1946' by TS)
2-7/8"			5494'	900 sxs cmt

LOGS:

Date	Company	Log Name
4/5/63	Welex	Sonic, Guard, FoRxo

DST's:

INITIAL COMPLETION:

(String #1) Perforated 5358-5442' Blinebry, Acidized w/500 gals 15% NE acid, frac'd w/20,000 gal refined oil & 16,000# 20-40 sd. IP: Flwd 205 BO & 19 BWPD, Gravity 38.1° API, GOR 1246 SCF/STB

(String #2) Perforated 3015-3220' Seven Rivers-Queen

INITIAL COMPLETION DATE: 4/6/63

TREATMENTS AND WORKOVERS

1-12-72 String #1 - Added Blinebry perfs from 5053-5303', acidized perfs from 5053-5442' w/6000 gal 15% Uni-Sol & 6000 gal 28% Uni-Sol in 5 stages using salt and benzoic acid flakes as diverting agents.

String #2 - Cleaned-out sand and junk to 5218', plugged back with 15 sx cmt, top of cmt found @ 3855'

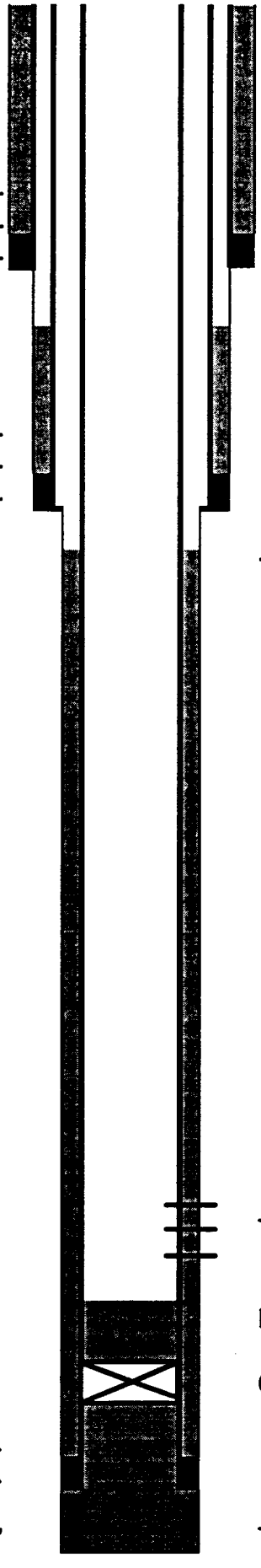
IDA WIMBERLEY #16

8-31-81 String #1 - Status of Blinebry completion changed from flowing to pumping oil well.

2-1-83 String #1 - Blinebry zone TA'd.

(Current Completion) - String #1: Perfs 5053-5442', Blinebry - TA'd
String #2: Perfs 3015-3220', Seven Rivers-Queen, Gas Well

WELLBORE SCHEMATIC



South Justis Unit F #24

(AHC/ARCO Ida Wimberley #6)
1980' FNL & 1980' FWL (F)
Sec 25, T-25S, R-37E, Lea Co., NM
KB-3070'
Spudded 08/13/58
Completed 09/17/58

17-1/2" Hole.
13-3/8" casing @ 497'.
Set w/400 sxs cmt. Circ.

TOC @ 950' by TS

12-1/4" Hole.
9-5/8" casing @ 3263'.
Set w/1500 sxs cmt.

TOC @ 3488' by TS

Tubb/Drinkard Perfs 5824' to 5926'

PBD @ 5926'

CIBP @ 6050' w/20' cmt on top

8-3/4" hole.
7" csg @ 6926' w/465 sxs cmt.

Fusselman OH @ 6926' to 7000'

TD @ 7000'.

SOUTH JUSTIS UNIT "F" #24

LOCATION: 1980' FNL & 1980' FWL (F), SEC. 25, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: AHC/ARCO OIL AND GAS COMPANY

FORMER WELL NAME: IDA WIMBERLEY #6

BLM TRACT NUMBER: 51 **API NUMBER:** 3002511759

SPUD DATE: 8/13/58

KB: 3070' GL: TD: 7000' PBTD: 5926'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			497'	400 sxs cmt,circ
9-5/8"			3263'	1500 sxs cmt, (TOC @ 950' - TS)
7"			6926'	465 sxs cmt, (TOC @ 3488' - TS)

LOGS:

Date	Company	Log Name
9/12/58	Schlumberger	IES, ML

DST's:

INITIAL COMPLETION: IP Drinkard (5856-5870' and 5881-5926' Flwd at rate of 235 BOPD, Gravity 37.6° API, GOR 597 SCF/STB, Drinkard formation Fusselman OH 6926-7000'

INITIAL COMPLETION DATE: 9/17/58

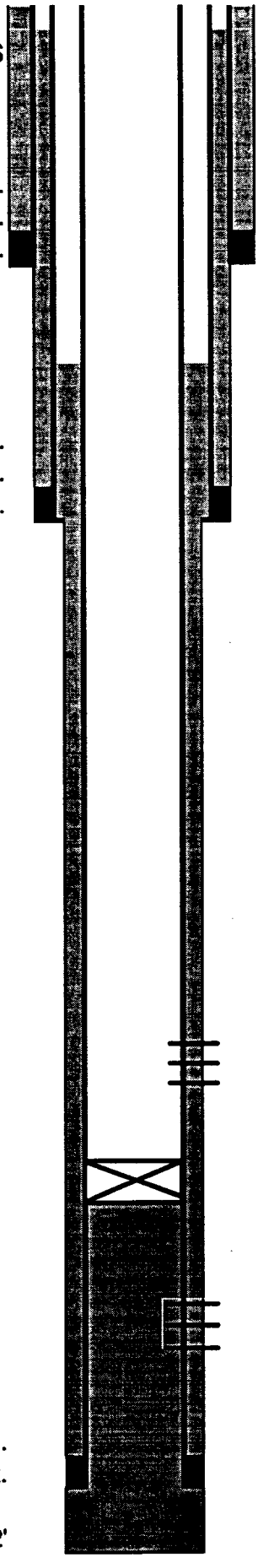
TREATMENTS AND WORKOVERS

4-12-61 Plugged back open hole from 7000' to 6937' with cement

8-3-77 Set CIBP @ 6050' w/20' cmt on top, Fusselman zone TA'd

9-8-77 Add Drinkard perfs from 5824-5828', plugged back w/cmt to 5926'. Acid frac perfs from 5856-5926' w/11,000 gal. 15% RA, 12,000 gal water, & 16,000# FLA-100. Acid-frac perfs from 5824-5828' w/1000 gal 15% RA & 2000# FLA-100.

WELLBORE SCHEMATIC



South Justis Unit G #24

(AHC/ARCO Ida Wimberley #8)
1650' FNL & 1980' FEL (G)
Sec 25, T-25S, R-37E, Lea Co., NM
KB-3074'
Spudded 01/02/59
Completed 02/01/59

TOC @ 357' by TS

17-1/2" Hole.
13-3/8" casing @ 553'.
Set w/400 sxs cmt. Circ.

TOC @ 1508' by TS

12-1/4" Hole.
9-5/8" casing @ 3290'.
Set w/1500 sxs cmt.

Sqzd Tubb/Drinkard Perfs @ 5874' to 5924'

CIBP @ 6844'

Fusselman Perfs @ 6766' to 6833'
TA'd 1985

8-3/4" hole.
7" csg @ 6906' w/465 sxs cmt.

Sqzd Fusselman OH @ 6906' to 7002'

TD @ 7002'.

SOUTH JUSTIS UNIT "G" #24

LOCATION: 1650' FNL & 1980' FEL (G), SEC. 25, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: AHC/ARCO

FORMER WELL NAME: IDA WIMBERLEY #8

BLM TRACT NUMBER: 51 **API NUMBER:** 3002511762

SPUD DATE: 1/2/59

KB: 3074' GL: TD: 7002' PBTD: 6844'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			553'	400 sxs cmt
9-5/8"			3290'	1500 sxs cmt, (TOC @ 357' - TS)
7"			6906'	465 sxs cmt, (TOC @ 1508' - TS)

LOGS:

Date	Company	Log Name
1/28/59	Schlumberger	GR, IE, ML
9-28-67	Welex	GR-N

DST's:

INITIAL COMPLETION: IP Flwd at rate of 828 BOPD, Gravity = 47.7° API, GOR = 266 SCF/STB
Perforated from 5874-5896' & 5901-5924', Drinkard formation

INITIAL COMPLETION DATE: 2/1/59

TREATMENTS AND WORKOVERS

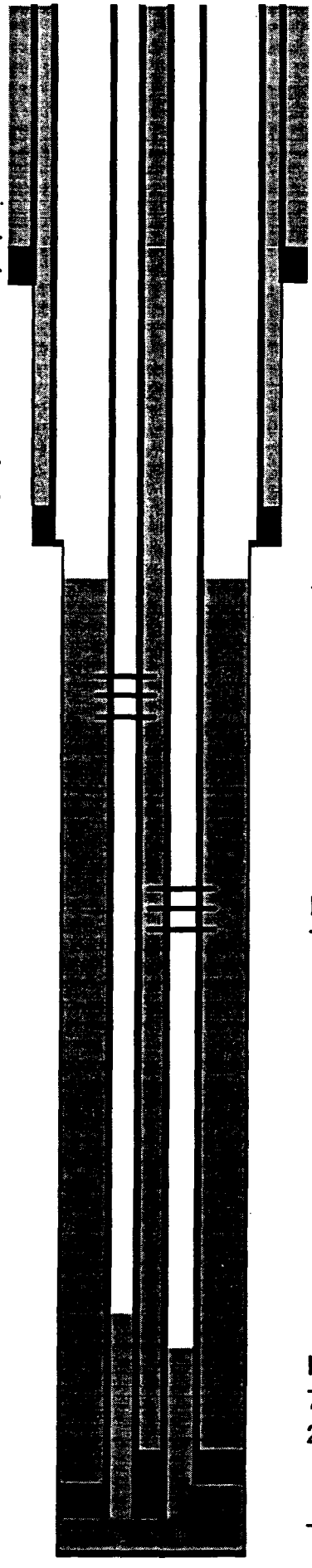
12-18-62 Sand-oil frac'd Drinkard perfs from 5874-5924' w/1500 gals lse crude & 20,980# 20-40 sd

10-18-67 Packer driven to 6955', perf'd Fusselman from 6766-6885', set expendable plug @ 6900', & acidized new perfs

SOUTH JUSTIS UNIT "G" #24

6-23-72	Drinkard perfs from 5874-5924' squeezed w/300 sx cmt, zone abandoned
6-28-72	Added Fusselman perfs from 6766-6833', squeezed lower perfs from 6861-6883' w/65 sx cmt, acidized remaining Fusselman perfs from 6766-6833', P.B.D. 6844'
8-24-83	Squeezed csg leak in vicinity of old Drinkard perfs
10/84-12/84	Unsuccessful attempt to locate source of water entry. CIBP used in WO knocked loose & driven to P.B.D. of 6844'.
6-4-85	Fusselman zone TA'd.

WELLBORE SCHEMATIC



Ida Wimberley #14

AHC/ARCO Oil and Gas Company
1980' FNL & 1650' FEL (G)
Sec 25, T-25S, R-37E, Lea Co., NM
KB-3072'
Spudded 02/09/63
Completed 03/01/63

17-1/2" Hole.
14" casing @ 20'.
Set w/30 sxs cmt. Circ.

11" Hole.
8-5/8" casing @ 850'.
Set w/400 sxs cmt. Circ.

TOC @ 2002' by TS

7Rvrs Qn Perfs @ 3069' to 3247'.

Blinebry perfs 5359'-5425'.
TA'd 08/83

PBD @ 5441'.

PBD @ 5464'.
7-7/8" hole.
2-7/8" tbg @ 5495'.

7-7/8" hole.
2-7/8" tbg @ 5497' w/900 sxs cmt.

TD @ 5500'.

IDA WIMBERLEY #14

LOCATION: 1980' FNL & 1650' FEL (G), SEC. 25, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: AHC/ARCO OIL AND GAS COMPANY

BLM TRACT NUMBER: **API NUMBER:** 3002520039

SPUD DATE: 2/9/63

KB: 3072' GL: 3071' TD: 5500' PBTD: 5464'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
14"			20'	30 sxs cmt, circ
8-5/8"			850'	400 sxs cmt, circ
2-7/8"			5495'	900 sxs cmt, (TOC @ 2002'-TS)
2-7/8"			5497'	900 sxs cmt

LOGS:

Date	Company	Log Name
2/27/63	Welex	Sonic, Guard, FoRxo

DST's:

INITIAL COMPLETION:

(String #1) Perforated 5359-5425' Blinebry, 500 gal 15% NE acid, frac'd w/19,400 gal refined oil and 16,000# 20-40 sand. IP: Flwd at rate of 164 BOPD, Gravity 39.4° API, GOR 1395 SCF/STB

(String #2) Perforated from 3069-3247' Seven Rivers-Queen

INITIAL COMPLETION DATE: 3/1/63

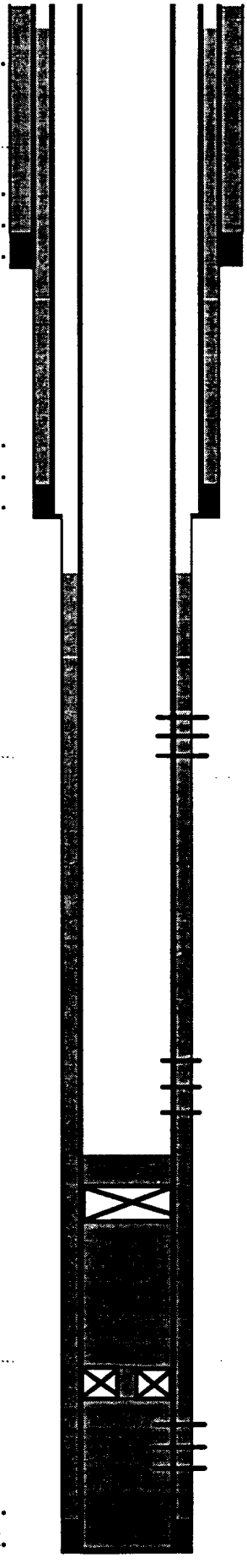
TREATMENTS AND WORKOVERS

7-9-81 String #1 - Status of Blinebry completion changed from flowing to pumping

8-23-83 String #1 - Blinebry zone TA'd

(Current Completion) - String #1 - 5359-5425' Blinebry - TA'd
String #2 - 3069-3247' Seven Rivers-Queen, Gas well

WELLBORE SCHEMATIC



South Justis Unit H #24

(ARCO State Y #6)
1650' FNL & 660' FEL (H)
Sec 25, T-25S, R-37E, Lea Co., NM
KB-3077'
Spudded 02/23/59
Completed 04/10/59

TOC @ 118' (Calculated).

17-1/2" Hole.
13-3/8" casing @ 531'.
Set w/350 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3321'.
Set w/950 sxs cmt.

TOC @ 3700' by TS.

Blinebry Perfs @ 5030' to 5560'

Montoya Perfs @ 6915' to 6971'

CIBP @ 7025'; Cmt to 7016'

Baker Mod "D" Pkr w/DR plug @ 8210'

Ellenburger Perfs @ 8232' to 8249'

8-3/4" hole.
7" csg @ 8280' w/623 sxs cmt.

TD @ 8280'.

SOUTH JUSTIS UNIT "H" #24

LOCATION: 1650' FNL & 660' FEL (H), SEC. 25, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: STATE "Y" #6

BLM TRACT NUMBER: 31 **API NUMBER:** 3002511774

SPUD DATE: 2/23/59

KB: 3077' GL: TD: 8280' PBTD: 8275'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"	48#		531'	350 sxs cmt, circ
9-5/8"	36/29#		3321'	950 sxs cmt
7"	23/29#		8280'	623 sxs cmt, (TOC @ 3700'-TS)

LOGS:

Date	Company	Log Name
4/10/59	Schlumberger	GR-N, IES, ML
12/12/83	McCullough	Casing Inspection

DST's:

1	5290-5377'	Blinebry	GTS 16 min, 80' FO, 10' HOCM
2	5375-5470	Blinebry	GTS 21 min, 450' FO, 300' OGCM
3	7635-7778'	McKee	Weak blow of air died, 129' Mud, NS
4	7636-7853'	McKee	Weak blow of air died, 440' Mud, NS
5	8246-70'	Ellenburger	GTS 5 min, Flwd 13 BO, FTP 18

INITIAL COMPLETION: Perf Montoya 6915-6971', acidized w/6 gals 7-1/2%, 15% acid 222 BOPD, perf Ellenburger 8232-49', acidized w/500 gal 7-1/2% MCA, 144 BOPD

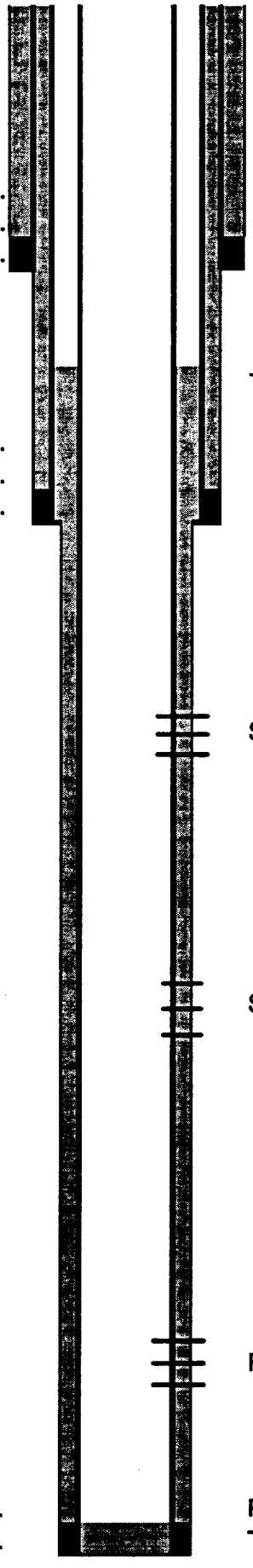
INITIAL COMPLETION DATE: 4/10/59

SOUTH JUSTIS UNIT "H" #24

TREATMENTS AND WORKOVERS

12-59	Set D-R plug in 415 D pkr & CIBP @ 7025' top w/2 sx cmt, perf Blinebry 5297-5300', 5322-29', 5347-52', 5366-72', 5384-98', 5412-22', 5452-66', (4 spf) treated w/12K gal 15% LSTNE acid, 85 BOPD, 28 BW-dual Montoya.
6-14-65	Trtd 5297-5466' w/1Kgal 15% HCl, 30K gal lse oil, 35K#sd, 6915-74 w/1.5Kgal 15%, 300 gal MA
2-15-68	Acidized 6915-74' w/5Kgal 15% HCl
8-20-68	Trtd 6915-74' w/750 gal 38% KOH, 110 gal Visco, 95% scale inhibitor, 2Kgal 15% HCl
10-31-74	Perf 5030', 38', 43', 47', 54', 60', 84', 89', 5101', 06', 10', 13', 35', 40', 48', 58', 72', 81', 90', 5213', 18', 24', 32', 61', 80', 5526', 34', 40', 53', 55', 5560', trtd 5030-5280 w/1.5K gal 15% HCl LSTNE, 5030-5560 w/70K#sd, 45.5 Kgal 9# brine.
12-83	Ran csg inspection log. Bad pipe 5480-6876'. A Montoya, 4000 gal, put mon on pump while WO commingling order
9-84	Drld & pushed Model "D" pkr to 6966' got cmt returns. Had sd fill @ 6957'. Cleaned it to CIBP @ 7025'. Completed as Montoya/Blinebry commingled down hole

WELLBORE SCHEMATIC



State Y #8

ARCO Oil and Gas Company
1980' FNL & 990' FEL (H)
Sec 25, T-25S, R-37E, Lea Co., NM
KB-3075'
Spudded 05/31/59
Completed 07/03/59

17-1/2" Hole.
13-3/8" casing @ 482'.
Set w/425 sxs cmt. Circ.

TOC @ 2765' by TS.

12-1/4" Hole.
9-5/8" casing @ 3330'.
Set w/1800 sxs cmt. Circ.

Sqzd Blinebry Perfs @ 5178' to 5444'

Sqzd Tubb/Drinkard Perfs @ 5902' to 5925'

Fusselman Perfs @ 6720' to 6863'

8-3/4" hole.
7" csg @ 6880' w/340 sxs cmt.

PBD @ 6879'
TD @ 6880'.

STATE "Y" #8

LOCATION: 1980' FNL & 990' FEL (H), SEC. 25, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: ARCO OIL AND GAS COMPANY

BLM TRACT NUMBER: 31 **API NUMBER:** 3002511776

SPUD DATE: 5/31/59

KB: 3075' GL: TD: 6880' PBTD: 6879'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			482'	425 sxs cmt, circ
9-5/8"			3330'	1800 sxs cmt, circ
7"	20/23#		6880'	340 sxs cmt, (TOC @ 2765' - TS)

LOGS:

Date	Company	Log Name
6/25/59	Schlumberger	GR-N, ML

DST's:

1	5750-5805'	MTS 10 min, OTS 12 min, GTS 7 min, RO 8 BO, Rec 60' gas
2	5905-25'	GTS 20 min 90' free Oil

INITIAL COMPLETION: Drinkard/Fusselman

INITIAL COMPLETION DATE: 7/3/59

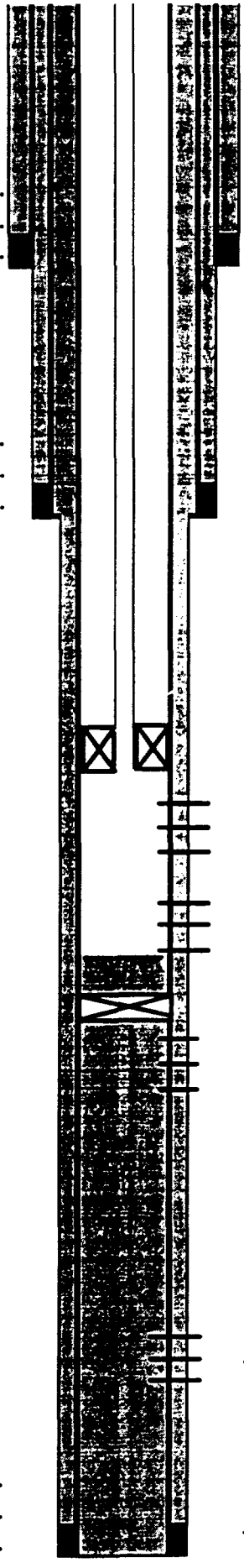
TREATMENTS AND WORKOVERS

Drinkard:	A/250 gal MCA + 2500 gal 15% LSTNE (5902-25') 4 spf - 92 BO, 4 BW, F	
Fusselman:	6720-6830' - 106 BO, 2 BW, F, No treatment	
Drinkard:	(5-61)	L.D. Frac - 1500 gals + 2800# sd
Drinkard:	(7-64)	4000 gals 15% LSTNE
Drinkard:	(5-68)	Abdn - Cum - 80 MBO
Blinebry:	(5-68)	Perf 5178-5444', A/2500 gal 15% HCl + Frac 30,000 gals LO + 36,000# sd. 97 BO, 0 BW, F

STATE "Y" #8

6-80	Abandon Blinebry & put Fusselman on pump
10-84	Set CIBP @ 5000', TA
4-88	Drill out CIBP 5000'. CO to 6876'. Re-perf'd Fusselman 6725-6863', A/10,000 gals. P 128 BO, 1047 BW, 91 MCF

WELLBORE SCHEMATIC



South Justis Unit H #240

(ARCO State Y #10)
2310' FNL & 990' FEL (H)
Sec 25, T-25S, R-37E, Lea Co., NM
KB-3071'
Spudded 12/08/76
Completed 03/11/77

17-1/2" Hole.
13-3/8" casing @ 505'.
Set w/525 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3350'.
Set w/525 sxs cmt. Circ.

2-3/8" PVC tubing @ 5000'
Otis Interlock Packer @ 5000'

Blinebry Perfs @ 5100' to 5600'

Tubb/Drinkard Perfs @ 5711' to 6032'

PBD @ 6763'
CR @ 6784'

Sqzd Fusselman Perfs @ 6836' to 6948'

Sqzd Montoya Perfs @ 7028' to 7087'

8-3/4" hole.
7" csg @ 7510'.
Set w/1125 sxs cmt. Circ.

TD @ 7510'.

SOUTH JUSTIS UNIT "H" #240

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

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: STATE "Y" #10

BLM TRACT NUMBER: 31 **API NUMBER:** 3002525376

SPUD DATE: 12/8/76

KB: 3071' GL: TD: 7510' PBTD: 6764'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"	54.5#	K-55	505'	525 sxs cmt, circ
9-5/8"	36#	K-55	3350'	525 sxs cmt, circ
7"	20/26#	J-55	7510'	1125 sxs cmt, circ

LOGS:

Date	Company	Log Name
1/25/77	Schlumberger	CNL-FDC, DLL, Sonic, Coriband
5/21/80	Schlumberger	CBL

DST's:

1	5270-5460'	IFP 109, 15" 153, ISIP-327, FFP-175, 1'-197, FSIP-524, rec 426' mud
2	5850-5950'	15" IFP-69, ISIP-342, FFP-251, FSIP-525, rec 425' mud

INITIAL COMPLETION: IP Fusselman , P 49 BO, 441 BW, 9 MCF, GOR 184.1

INITIAL COMPLETION DATE: 3/11/77

TREATMENTS AND WORKOVERS

1-77 Perf'd Montoya 7028', 30', 32', 36', 43', 47', 71', 73', 76', 78',84', 87' Acidized w/3000 gals, Swbd 30 BO, 48 BW - 8 1/2 hrs, 6 BO, 26 BW-3 hrs. Perf'd Fusselman 6836', 38', 62', 65', 68', 70', 73', 76', 80',85',88',91',94',99',6905',20',26',31',34',40',42',44',48', A/5000 gals, Set CIBP @ 6990' w/20' cmt

SOUTH JUSTIS UNIT "H" #240

8-77 IP - Fusselman, P 49 BO, 441 BW, 9 MCF, GOR 184.1

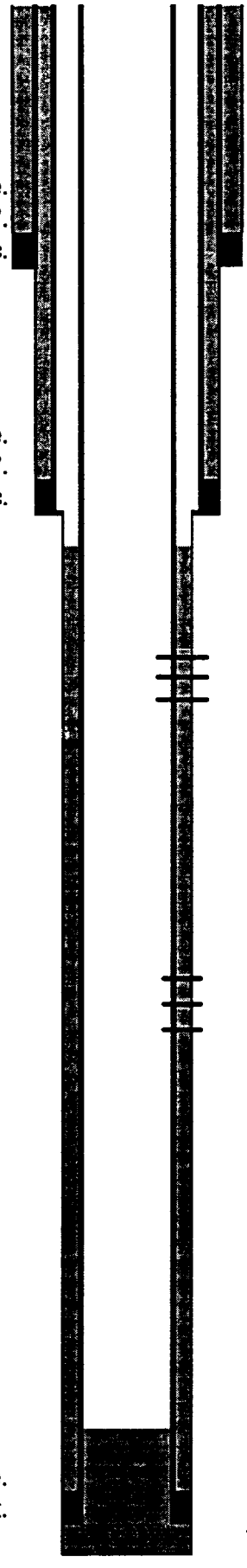
9-77 Set CR @ 6913' & pumped 150 sx cmt to sqz Fusselman perfs 6920-48', PBD 6904', Swbd 6836-6905' for 7 hrs. Rec 15 BO, 53 BW, Ran Kobe pump. 1-78 P 7 BO, 28 BW, 54 MCF

5-79 Set CR @ 6790'. Pumped 300 sxs into Fusselman perfs 6836-6905'. DO to CIBP @ 6986'. CO to 7148'. Acidized Montoya w/3500 gals 15%, 95 MCF N2. 9-79 P 0 BO, 184 BW.

5-80 Set CR @ 6764', Sqzd Montoya perfs w/400 sxs. Ran CBL 4500'-surf. Perf 4100'. Pumped 500 sx cmt. CO to 6763'-PBD. Perf Tubb/Drinkard at 5711', 21', 55', 62', 74', 78', 5804', 18', 5913', 44', 59', 86', 6020',32'. A/5000 gals w/500 SCF/BBL N2. F/15,000 gals GBW, 22,500# 100 mesh, 15,000 gals 15%. 7-80 IP P 44 BO, 100 BW, 221 MCF. Tubb/Drinkard

2-91 Ran Schlumberger NGT-GST logs

WELLBORE SCHEMATIC



Carlson Fed A #2

Meridian
2310' FSL & 990' FEL (I)
Sec 25, T-25S, R-37E, Lea Co., NM
KB-3071'
Spudded 04/06/59
Completed 06/15/59

17-1/2" Hole.
13-3/8" casing @ 577'.
Set w/500 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3277'.
Set w/1400 sxs cmt. Circ.

TOC @ 4650 by TS.

Tubb/Drinkard Perfs @ 5878' to 5928'
Inactive

Fusselman Perfs @ 6722' to 6960'

PBD @ 7160'

8-3/4" hole.
7" csg @ 7208' w/630 sxs cmt.

TD @ 7358'.

CARLSON FED 'A' #2

LOCATION: 2310' FSL & 990' FEL (I), SEC. 25, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: MERIDIAN

BLM TRACT NUMBER: 17 **API NUMBER:** 3002511764

SPUD DATE: 4/6/59

KB: 3071' GL: TD: 7358' PBTD: 7160'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			577'	500 sxs cmt, circ
9-5/8"			3277'	1400 sxs cmt, circ
7"			7208'	630 sxs cmt, (TOC @ 4650' by TS)

LOGS:

Date	Company	Log Name
5/21/59	Schlumberger	GR-N, IES, ML

DST's:

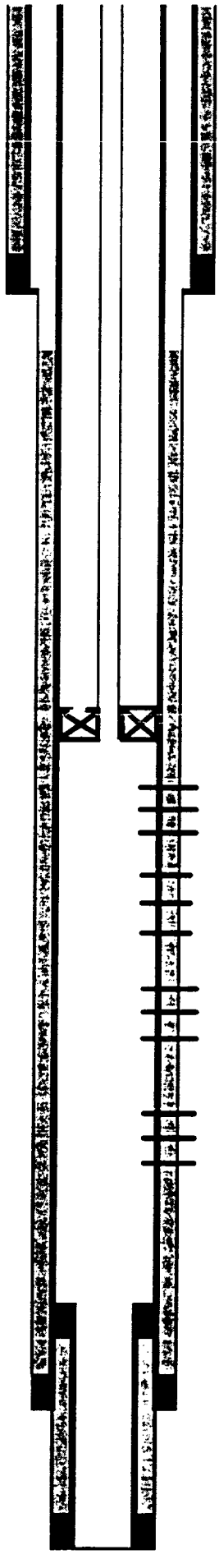
INITIAL COMPLETION: IP Drinkard (5878-5928'), A/2500, F 94 BO, GOR 953, TP 386#, Gravity 37.5°
Fusselman (6900-60'), F 189 BO, 282 GOR, TP 365#, Gravity 37°

INITIAL COMPLETION DATE: 6/15/59

TREATMENTS AND WORKOVERS

1966 New Fusselman perfs 6722-6832', 159 BO & 881 BW

WELLBORE SCHEMATIC



South Justis Unit H #250

(Meridian Carlson A Fed #5)
1650' FSL & 330' FEL (I)
Sec. 25, T-25S, R-37E, Lea Co., NM
KB 3070'
Spudded 11/03/59
Completed 12/20/59

12-1/4" hole.
9-5/8" casing @ 853'.
Set w/200 sxs cmt. Circ.

TOC @ 1370' by TS

2-3/8" PVC tubing @ 5000'
Otis interlock Packer @ 5000'

Squeeze Existing
Blinebry perfs @ 5040' to 5090'.

Add Perfs @ 5100' to 5790'

Tubb/Drinkard Perfs @ 5790' to 5836'
Inactive

Add Perfs @ 5836' to 6100'

8-3/4" hole.
7" csg @ 5945' w/670 sxs cmt.

Proposed 4-1/2" Liner @ 5800' to 6100'
Present PBD @ 5949'
Present TD @ 5950'.

Proposed TD @ 6100'

SOUTH JUSTIS UNIT "H" #250

LOCATION: 1650' FSL & 330' FEL (I), SEC. 25, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: MERIDIAN

FORMER WELL NAME: CARLSON "A" FED #5

BLM TRACT NUMBER: 17 **API NUMBER:** 3002511767

SPUD DATE: 11/3/59

KB: 3070' GL: 3060' TD: 5950' PBTD: 5949'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"			853'	200 sxs cmt, circ
7"			5945'	670 sxs cmt, (TOC @ 1370' - TS)

LOGS:

Date	Company	Log Name
11/30/59	Welex	GR-N, Guard, Forxo

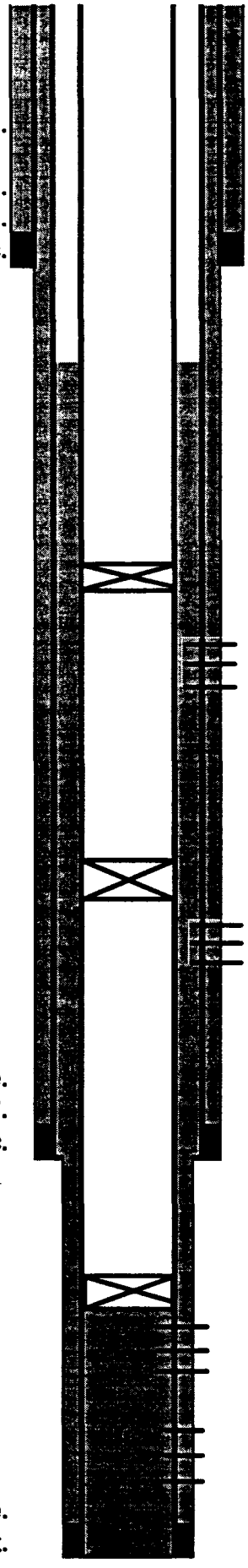
DST's:

INITIAL COMPLETION: IP Blinebry (5040-90'), A/8500, SOF 10,000, F 58 BO, GOR 1635, TP 800#, Gravity 38°
Tubb (5790-5836'), A/500, F 250 BO, GOR 1395, TP 110#, Gravity 38.5°

INITIAL COMPLETION DATE: 12/20/59

TREATMENTS AND WORKOVERS

WELLBORE SCHEMATIC



South Justis Unit G #25

(Meridian Carlson Fed A #6)
1650' FSL & 1650' FEL (J)
Sec 25, T-25S, R-37E, Lea Co., NM
KB-3070'
Spudded 12/05/59
Completed 01/16/60

TOC @ 450'.

12-1/4" Hole.
9-5/8" casing @ 857'.
Set w/750 sxs cmt. Circ.

TOC @ 1175' by TS

RBP @ 5350'

Blinebry Perfs @ 5408' to 5436'
Shut-In

CIBP @ 5722'

Tubb/Drinkard Perfs @ 5746' to 5896'
Inactive

8-3/4" Hole.
7" casing @ 5909'.
Set w/373 sxs cmt. Circ.

PBD @ 6810'

Fusselman Perfs @ 6834' to 6862'

Montoya Perfs @ 6934' to 6936'

6-3/4" hole.
4-1/2" csg @ 7000' w/150 sxs cmt.

TD @ 7000'.

SOUTH JUSTIS UNIT "G" #25

LOCATION: 1650' FSL & 1650' FEL (J), SEC. 25, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: MERIDIAN

FORMER WELL NAME: CARLSON FED "A" #6

BLM TRACT NUMBER: 17 **API NUMBER:** 3002511754

SPUD DATE: 12/5/59

KB: 3070' GL: 3059' TD: 7000' PBTD: 6810'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"			857'	750 sxs cmt, circ
7"			5909'	373 sxs cmt, circ
4-1/2"			7000'	150 sxs cmt, (TOC @ 1175'-TS)

LOGS:

Date	Company	Log Name
12/27/59	Welex	GR-N, Guard, FoRxo

DST's:

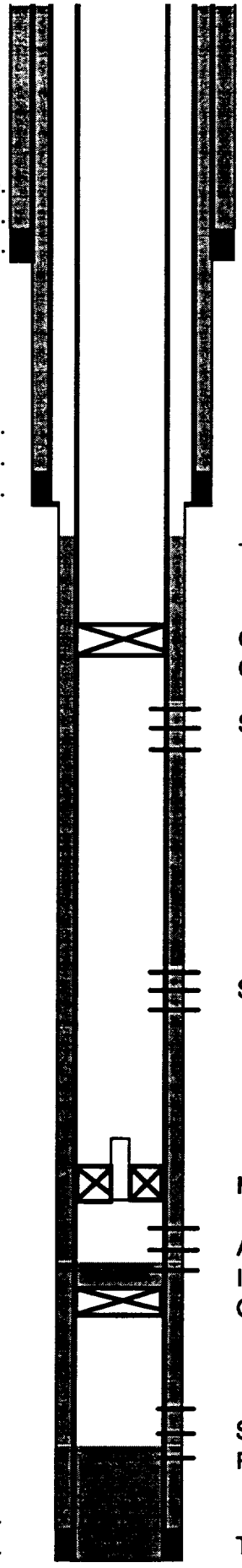
INITIAL COMPLETION: IP Blinebry (5408-36'), A/1000, SOF 10,000, F 268 BO, 1600 GOR, TP 1150, Gravity 38.3°
Tubb (5746-74') A/2000, GOR 2900, TP 1150#, Gravity 39°

INITIAL COMPLETION DATE: 1/16/60

TREATMENTS AND WORKOVERS

1965	Deepened to 7000', PB 6995', Perf Montoya 6934-36'
12-72	PB 6882', Perf Fuss 6834', 48', 62', A/1000, Swbd wtr 1% oil, PB 6810'
9-76	Perf'd Tubb/Drinkard 5855-96'. A/4000 gals. Set CIBP @ 5722'
5-91	RBP @ ± 5350'. Well TA'd.

WELLBORE SCHEMATIC



Carlson A Fed #1

Meridian
2310' FSL & 2310' FEL (J)
Sec 25, T-25S, R-37E, Lea Co., NM
KB 3078'
Spudded 02/20/59
Completed 05/15/59

17-1/2" Hole.
13-3/8" casing @ 573'.
Set w/450 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3273'.
Set w/1450 sxs cmt. Circ.

TOC @ 3930' by TS.

CIBP @ 5000'
Collapsed casing @ 5293'

Sqzd Blinebry Perfs @ 5236' to 5395'

Sqzd Tubb/Drinkard Perfs @ 5732' to 5942'

Model D Pkr w/plug @ 6200'

Abo Perfs @ 6388' to 6617'
Inactive
CIBP @ 6670' w/20' cmt

Sqzd Fusselman Perfs @ 6798' to 6951'
PBD @ 6860'

8-3/4" hole.
7" csg @ 6953' w/500 sxs cmt.

TD @ 6954'.

CARLSON "A" FED #1

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

OPERATOR: MERIDIAN

BLM TRACT NUMBER: 17 **API NUMBER:** 3002511756

SPUD DATE: 2/20/59

KB: 3078' GL: 3067' TD: 6954' PBTD: 5000'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"	48#		573'	450 sxs cmt
9-5/8"	36#	J-55	3273'	1450 sxs cmt, circ
7"	23#	J-55/N-80	6953'	500 sxs cmt, (TOC @ 3930' - TS)

LOGS:

Date	Company	Log Name
3/25/59	Schlumberger	Sonic, IES, ML

DST's:

INITIAL COMPLETION: IP - Drinkard (5848-5906'), F 88 BO (A/1500), TP 450#
Fusselman (6896-6951'), F 111 BO, TP 450#

INITIAL COMPLETION DATE: 5/15/59

TREATMENTS AND WORKOVERS

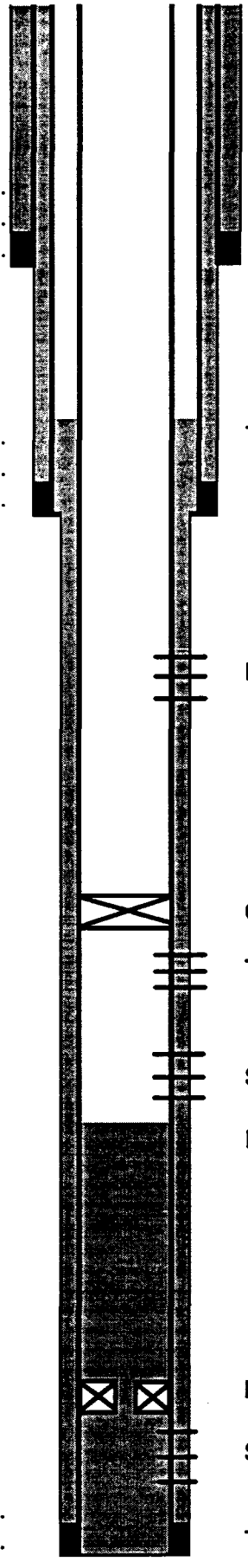
2-66 Added Tubb perfs (5732-5942') & Fusselman perfs (6820-26')

2-71 Sqzd Fusselman perfs (6784-6825') w/300 sxs
Tubb/Drinkard (5732-5825') w/425 sxs. CO to 6860'.
Perf'd Fusselman 6798-6808'. A/250 gals.

9-74 Abo perfs 6388-91', 6422-26', 6526-28', 68-71', 6612-17'.
A/5000 gals.
Blinebry perfs 5236-5395', P 197 BO, 50 BW, GOR 5076, Gravity 39.1°,
F/80,000 gals & 120,000#. Set CIBP @ 6670' w/20' cmt. Set Model "D"
pkr w/plug @ 6200'.

12-91 Sqzd Blinebry 5253-5395' w/550 sxs. Found collapsed csg @ 5293'. Set
CIBP @ 5000'. TA'd.

WELLBORE SCHEMATIC



South Justis Unit F #25

(ARCO Carlson Federal #1)
2310' FSL & 2309' FWL (K)
Sec 25, T-25S, R-37E, Lea Co., NM
KB-3074'
Spudded 12/04/58
Completed 02/20/59

17-1/2" Hole.
13-3/8" casing @ 634'.
Set w/585 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3348'.
Set w/1800 sxs cmt. Circ.

TOC @ 3200' by TS

Blinebry Perfs @ 5008' to 5584'

CIBP @ 5630'

Tubb/Drinkard Perfs @ 5676' to 5820'

Sqzd Tubb/Drinkard Perfs @ 5748' to 5914'

PBD @ 5845'

Model "D" Packer @ 6880'

Sqzd Fusselman Perfs @ 6918' to 6950'

8-3/4" hole.
7" csg @ 6960' w/500 sxs cmt.

TD @ 6960'.

SOUTH JUSTIS UNIT "F" #25

LOCATION: 2310' FSL & 2309' FWL (K), SEC. 25, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: CARLSON FEDERAL #1

BLM TRACT NUMBER: 23 **API NUMBER:** 3002511768

SPUD DATE: 2/20/59

KB: 3074' GL: TD: 6960' PBTD: 5630'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"	48#		634'	585 sxs cmt, circ
9-5/8"	32.3/36#		3348'	1800 sxs cmt, circ
7"	20/23#		6960'	500 sx cmt, (TOC @ 3200' - TS)

LOGS:

Date	Company	Log Name
1/9/59	Schlumberger	GR-N, I-EL
4/23/66	Schlumberger	CCL
1/3/78	Schlumberger	CBL, Magnelog
1/5/78	Schlumberger	Tracer

DST's:

1	Blinebry	5120-5230'	GTS 4", F 1 MMCFD, FTP50#, Rec 360" GCM, 540' HO&GCM, IFP 375, FFP 390, SIP 2150, (30")
2	Blinebry	5230-5330'	GTS 10", F 30 MCFD, FTP 10#, Rec 690' 50-50 mud & oil, 270' oil, 390' HO&GCM, IFP 200, FFP 325, SIP 2010, (30")
3	Blinebry	5330-5414'	GTS 8", Rec 1000' oil, 500' HO&GCM, IFP 140, FFP 335, SIP 2095 (30")
4	Drinkard	5879-5930'	GTS 4", Oil 1' 10", Rec 90' oil, IFP 395, FFP 575, No SIP
5	Fusselman	6917-47'	GTS 6", Oil TS-70", RO 6890' O&G, ISIP (20") 2940#, IFP 408#, FFP 1320#, FSIP (30") 2325#

SOUTH JUSTIS UNIT "F" #25

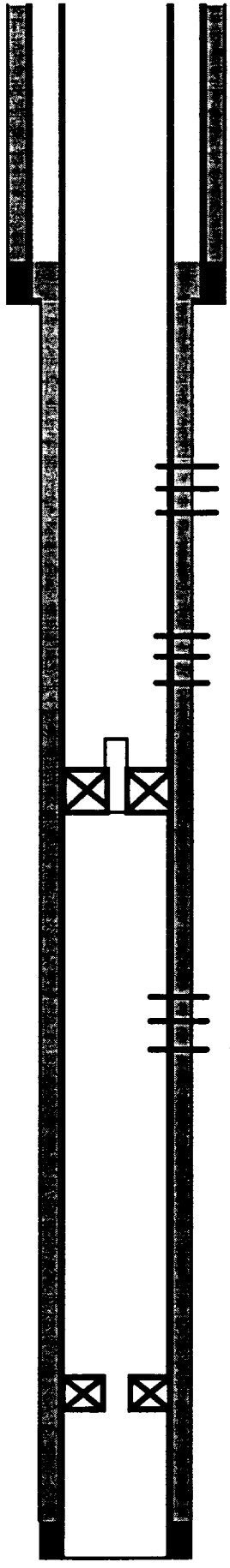
INITIAL COMPLETION: Drinkard 5868-5914' (4 spf), F 400 BO, 14 BW, TP 125, 32/64" choke
Fusselman 6918-50' (4 spf), F 442 BO, 1 BW, TP 125, 32/64" choke

INITIAL COMPLETION DATE: 2/20/59

TREATMENTS AND WORKOVERS

4-61	Installed Kobe pump - Drinkard
6-61	A/4000 gals - Fusselman
4-66	Squeeze Fusselman w/75 sx thru Model D pkr. PBD 6734'. F/Drinkard 5873-5919' w/500 gals 15%, 15,000 gals LO & 14,000# SD. Perf Blinebry 5306', 20', 25', 48', 63', 93', 99', 5414'. A/1000 gals, F/25,000 gals LO, 29,300# SD. F 287 BO, 778 MCF, TP 950#, CP 500#
5-67	Perf'd Tubb/Drinkard 5748', 50', 55', 57', 72' & 75', A/1000 gals, F/10,000 gals LO, 5000# SD. Sqzd 5748-75' w/32 sx. CO to 6100', PBD 6734'
4-71	Set CIBP w/2 sx cmt - 5710. Perf Blinebry 5267', 5446', 63', 80', 85', 5505', 08', 32', 58', 61', 84'. A/1000 gals, F/35,000 gals BW & 35,000# SD. IP 117 BO, 800 MCFD.
12-77	Sqzd Drinkard 5868-5914' w/250 sx CR @ 5777'. DO to 5849', Perf'd Drinkard 5676-5820' (23 holes) & Blinebry 5008-5218 (25 holes). A/Drinkard w/2500 gals. F/Drinkard 5676-5820' w/20,000 gals X-Link, 5000# 100 mesh, & 30,000# 20/40
1-78	Set CIBP @ 5630' w/1 sx cmt. A/Blinebry perfs 5008-5217' w/2000 gals. F/60,000 gals GBW, 90,000# 20/40 & 15,000# 100 mesh. POH w/CIBP (5250'), A/Blinebry perf 5267-5584' w/3000 gals, PBD 5895'
3-78	Blinebry perfs 5008-5584', F 25 BO, 38 BW, CIBP 5630, Tubb/Drinkard perfs 5676-5820'

WELLBORE SCHEMATIC



South Justis Unit E #25

(ARCO Carlson Federal #2)
2310' FSL & 990' FWL (L)
Sec. 25, T-25S, R-37E, Lea Co., NM
KB 3071'
Spudded 06/07/59
Completed 07/23/59

12-1/4" hole.
9-5/8" casing @ 850'.
Set w/550 sxs cmt. Circ.
TOC @ 885' by TS.

Blinebry Perfs @ 5024' to 5098'.

Blinebry Perfs @ 5298' to 5368'

PBD @ 5548'
Plug in Packer @ 5560'

Tubb/Drinkard Perfs @ 5744' to 5932'

Packer @ 5903'

8-3/4" hole.
7" csg @ 6000'.
Set w/970 sxs cmt.

TD @ 6000'.

SOUTH JUSTIS UNIT "E" #25

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

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: CARLSON FEDERAL #2

BLM TRACT NUMBER: 23 **API NUMBER:** 3002511769

SPUD DATE: 6/7/59

KB: 3071' GL: TD: 6000' PBTD: 5548'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"	32.3/36#		850'	550 sxs cmt, circ
7"	20/23#		6000'	970 sxs cmt, (TOC @ 885' by TS)

LOGS:

Date	Company	Log Name
7/4/59	Schlumberger	GR-N, CAL
7/7/59	Schlumberger	CCL
3/1/66	Schlumberger	Tracer

DST's:

1	5285-5380'	Blinebry	GTS 45", SI 30", rec 270' O&GCM, 91' O&G Below SI Tool, IFP 80, FFP 190, SIP 755
2	5280-5460'	Blinebry	GTS 17", SI 30", rec 720' HO&GCM w/FO & 90' SW, IFP 150, FFP 255, SIP 1850
3	5725-5810'	Tubb	GTS 5", OTS 2' 15", Rec 90' SW & 90" gas, IFP 225, FFP 510, SIP 2550
4	5860-5926'	Drinkard	Rec 2953" gas & 60' GCM, IFP 85, FFP 110, 30" SIP 210
5	5926-65'	Drinkard	GTS 13", rec 90" HO&GCM, 635' O&G, 85' SW. IFP125, FFP 335, 30" SIP 3245. Perf Drinkard 5920-46' w/4 spf. A/1500 gals, Sqz w/125 sx. DO to 5933'

SOUTH JUSTIS UNIT "E" #25

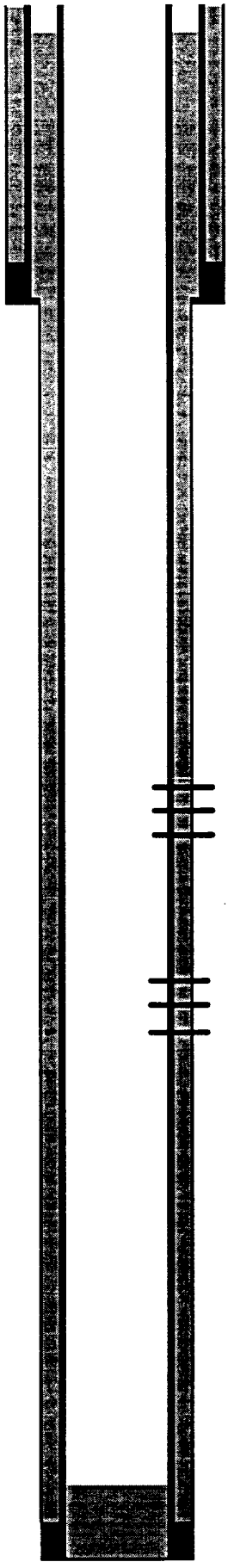
INITIAL COMPLETION: IP Blinebry 5374-5452', A/4000 gals, 324 BO, FTP 275#, 16/64" ck
Drinkard 5906-32', A/4500 gals, 120 BO, 120# FTP, 16/64" ck

INITIAL COMPLETION DATE: 7/23/59

TREATMENTS AND WORKOVERS

7-59	Perf 5906-16', 5924-32' w/4 spf, A/4500 gals. Perf Blinebry 5374-92', 5410-18', 5440- 52' w/4 spf, A/4000 gals
9-59	Blinebry 5374-5452', A/10,000 gals
12-59	Blinebry 5374-5452', F/15,000 gals LO, 15,000# 20-40 IP F 74 BO, 1 BW, GOR 1852, FTP 400, CF 750
12-60	DO to 5933' Blinebry: Perf 5298-5305', 5320-34', 5359-68' (2 spf) Drinkard: Perf 5744-49', 5772-83', 5792-5808', 5825-34', 5866-5892' F/Drinkard 5866-5906' w/500 gals 15%, 12,000 gals LO, 12,000# SD F/Drinkard 5744-5834' w/500 gals 15%, 13,000 gals LO, 13,000# SD F/Blinebry 5298-5368' w/500 gals 15%, 10,000 gals LO, 10,000# SD
2-63	Repaired holes in Drinkard tbg
2-66	Perf 4 holes at 5010'. Set BP 5200, Sqzd w/40 sx, DO to 5190'. Perf Blinebry 5024-40', 44-54', 90-98' (2 spf). F/Blinebry 5024-98' w/1000 gals 15%, 24,000 gals LO, 29,000# 20/40 sd. POH w/BP. Pushed 415-D pkr to 5903'. Set new packer 415-D pkr -5560'.
4-66	Blinebry: 5024-98', 5298-5368', IP P 83 BO, 970 MCF Tubb/Drinkard: 5744-5892', IP P 30 BO, 85 MCF
6-67	Set plug in pkr -5560' (25 sx cmt) P&A'd Tubb/Drinkard - PBD 5548'
9-76	A/Blinebry 5024-5368' w/ 4000 gals 15% HCL & xylene. IP P 29 BO, 12 BW
7-86	P 1000 gals 15% HCL down casing

WELLBORE SCHEMATIC



TOC @ 185' by TS.

17-1/2" hole.
13-3/8" casing @ 848'.
Set w/700 sxs cmt. Circ.

South Justis Unit E #26

(Meridian Carlson A #4)
990' FSL & 990' FWL (M)
Sec. 25, T-25S, R-37E, Lea Co., NM
KB 3067'
Spudded 09/25/59
Completed 12/18/59

Blinebry perfs @ 5024' to 5516'.

Tubb/Drinkard Perfs @ 5800' to 5824'

8-3/4" hole.
7" csg @ 5908' w/1170 sxs cmt.

PBD @ 5872'
TD @ 5909'.

SOUTH JUSTIS UNIT "E" #26

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

FORMER OPERATOR: MERIDIAN

FORMER WELL NAME: CARLSON "A" #4

BLM TRACT NUMBER: 17 **API NUMBER:** 3002511766

SPUD DATE: 9/25/59

KB: 3067' GL: 3054' TD: 5909' PBTD: 5872'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			848'	700 sxs cmt, circ
7"			5908'	1170 sxs cmt, (TOC @ 185' - TS)

LOGS:

Date	Company	Log Name
10/27/59	Welex	GR-N, Guard, FoRxo

DST's:

1	4860-4920'	Op 2' rec 575' SOGCM, FP 145-175, SI 30"/550
2	5180-5231'	Op 2' rec 10' mud, FP 55, SI 30"/115
3	5231-5440'	Op 2' G 7", rec 60' GCM, 1930 oil, 265 HOGCM, FP 300-685, SI 30"/2040
4	5525-60	Op 2', rec 150' mud, FP 45-85, SI 30"/775
5	5740-5818'	Op 1'45, G 5", M 1'15", Oil 1'30", F 6-8 BOPH, est. 1500 mcf, RO 20 BO, RBS 90' oil, FP 300-580, SI 30"/2535
6	6845-5909'	Op 5', RO est 5 BO + 30 BXW, RBS 90' MCXW, FP 70-230, SI 30"/2430

INITIAL COMPLETION: IP Blinebry (5420-5516'), A/8500, SOF 10,000, F 180 BO, 270 BW, TP 500#
Tubb/Drinkard (5800-24'), A/8500, GOR 5740, TP 465#

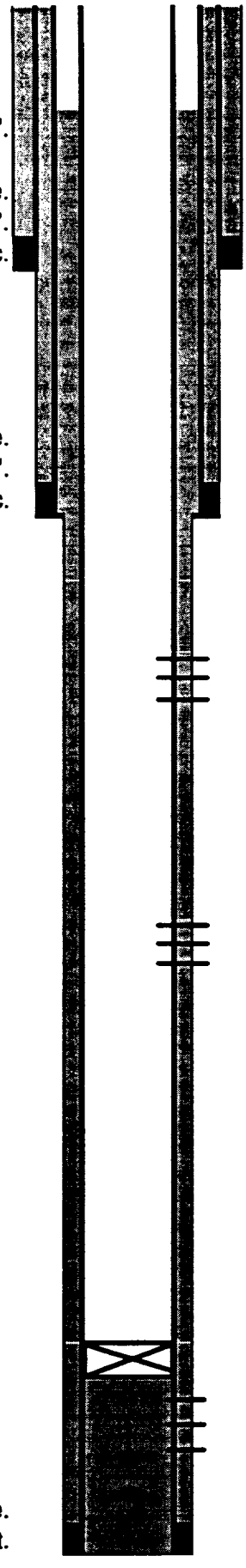
SOUTH JUSTIS UNIT "E" #26

INITIAL COMPLETION DATE: 12/18/59

TREATMENTS AND WORKOVERS

5-70 New Blinebry perfs 5024-5210', F/30,000 gals, 45,000#

WELLBORE SCHEMATIC



South Justis Unit F #26

(Meridian Carlson A #3)
990' FSL & 2310' FWL (N)
Sec 25, T-25S, R-37E, Lea Co., NM
KB-3066'
Spudded 07/24/59
Completed 09/24/59

TOC @ 450'.

17-1/2" Hole.
13-3/8" casing @ 558'.
Set w/500 sxs cmt. Circ.

11" Hole.
9-5/8" casing @ 3277'.
Set w/1400 sxs cmt. Circ.

Blinebry Perfs @ 4988' to 5603'

Tubb/Drinkard Perfs @ 5715' to 5910'

Cement Retainer @ 6854'

Sqzd Fusselman Perfs @ 6984' to 6998'

8-3/4" hole.
7" csg @ 7049' w/650 sxs cmt.

TD @ 7050'.

SOUTH JUSTIS UNIT "F" #26

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

FORMER OPERATOR: MERIDIAN

FORMER WELL NAME: CARLSON "A" #3

BLM TRACT NUMBER: 17 **API NUMBER:** 3002511765

SPUD DATE: 7/24/59

KB: 3066' GL: TD: 7050' PBTD: 6854'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"	48#		558'	500 sxs cmt, circ
9-5/8"	36#	J-55	3277'	1400 sxs cmt, circ
7"	23#	J-55/N-80	7049'	650 sx cmt, (TOC @ 450' - TS)

LOGS:

Date	Company	Log Name
8/28/59	Welex	GR-N, Guard, Forxo

DST's:

1	5310-5410'	Op 3', rec 50' HOGCM, 450' snc oil, 60' sgxwcm FP 75-215, SI 30"/1925
2	5690-5790'	Op 1', G 4", M 35", Oil 40", F 6.7 BOPH for 20", RO 20 BO, FP 585-680, SI 30"/2540
3	7000-20'	Op 2', rec 150' oil, 60' HOGCM, FP 30-110, SI 30"/2740
4	7020-7042'	Op 3', rec 150' oil, 60' HOGCM, FP 30-110, SI 30"/2740

INITIAL COMPLETION: IP Blinebry (5380-5500'), A/7000, F 53 BO, 26 BW, GOR 250
Drinkard (5830-5910'), A/3500, F 70 BO, GOR 960

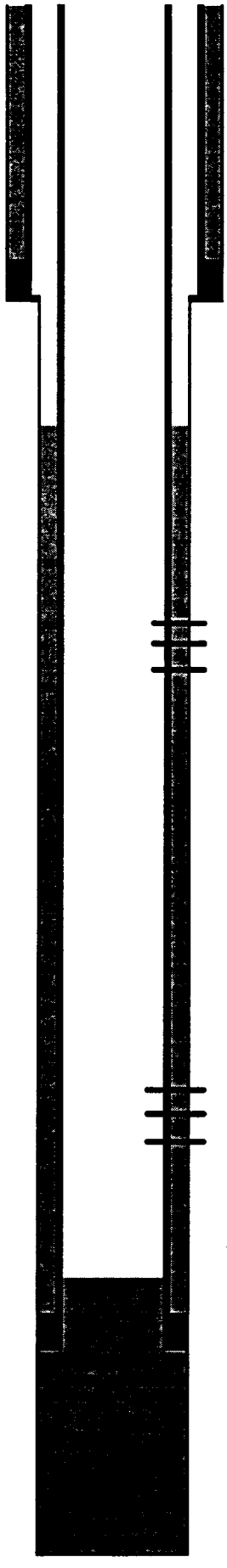
SOUTH JUSTIS UNIT "F" #26

INITIAL COMPLETION DATE: 9/24/59

TREATMENTS AND WORKOVERS

3-67	DO to 7033'. Perf Fusselman 6984-98'. A/1250, Swbd 98% SW, Sqzd w/100 sx, A/500. Swbd 23 B/H. Sqzd w/100 sx, CR 6854' Perf Drinkard (5715-5820'), A/1500, F/20,000 gals BW, 23,500# sd Perf Blinebry (5182-5603'), A/1250 gals, F/71,500 gals BW, 107,250# sd
5-70	New Blinebry perfs 4988-5125', F/20,000 gals, 30,000#

WELLBORE SCHEMATIC



Carlson B-25 Fed #3

Bruno/ARCO Oil and Gas Company
990' FSL & 1650' FEL (O)
Sec. 25, T-25S, R-37E, Lea Co., NM
KB 3058'
Spudded 11/12/59
Completed 12/26/59

17-1/2" hole.
13-3/8" casing @ 836'.
Set w/650 sxs cmt. Circ.

TOC @ 3069' (Calculated)

Tubb/Drinkard Perfs @ 5663' to 5942'

Abo Perfs @ 6182' to 6186'

8-3/4" hole.
7" csg @ 6652'.
Set w/680 sxs cmt..

PBD @ 6215'

TD @ 6800'.

CARLSON B-25 FED #3

LOCATION: 990' FSL & 1650' FEL (O), SEC. 25, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: BRUNO/ARCO OIL AND GAS COMPANY

BLM TRACT NUMBER: 21 **API NUMBER:** 3002511783

SPUD DATE: 11/12/59

KB: 3058' GL: 3046' TD: 6800' PBTD: 6215'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			836'	650 sxs cmt, circ
7"			6652'	680 sxs cmt (TOC @ 3069'-Calc)

LOGS:

Date	Company	Log Name
12/27/59	Schlumberger	GR-N, LL

DST's:

INITIAL COMPLETION: IP Drinkard (5900-42') A/2000, F 96 BO, 2600#, Gravity 38°
Fusselman (6652-6800'), F 940 BO, Gravity 37°

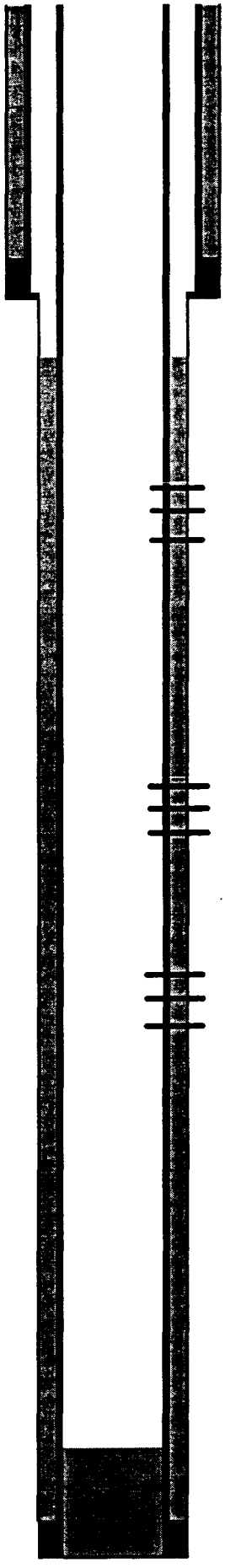
INITIAL COMPLETION DATE: 12/26/59

TREATMENTS AND WORKOVERS

6-69 New Tubb perfs 5663', 64', 5704', 05', 06', 07', 11', 13', 14', 31', 33', 41', 42', A/6000

8-82 Perf Abo (6182-86') A/1000, F 125 BO, 4 BW, GOR 29,914, TP 45# PB 6215'

WELLBORE SCHEMATIC



South Justis Unit G #26

(Bruno/ARCO Carlson B-25 Fed #5)
990' FSL & 1980' FEL (O)
Sec. 25, T-25S, R-37E, Lea Co., NM
KB 3054'
Spudded 04/26/60
Completed 05/30/60

14-3/4" hole.
11-3/4" casing @ 834'.
Set w/800 sxs cmt. Circ.

TOC @ 2735' (Calculated)

Paddock Perfs @ 4862' to 4884'
Inactive

Blinebry perfs @ 5052' to 5589'.

Tubb/Drinkard Perfs @ 5696' to 5841'
TA'd 1974

8-3/4" hole.
7" csg @ 6160' w/650 sxs cmt.

PBD @ 5872'

TD @ 6175'.

SOUTH JUSTIS UNIT "G" #26

LOCATION: 990' FSL & 1980' FEL (O), SEC. 25, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: BRUNO/ARCO OIL AND GAS COMPANY

FORMER WELL NAME: CARLSON B-25 FED #5

BLM TRACT NUMBER: 21 **API NUMBER:** 3002511785

SPUD DATE: 4/26/60

KB: 3054' GL: TD: 6175' PBTD: 5872'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
11-3/4"			834'	800 sxs cmt, circ
7"			6160'	650 sxs cmt, TOC @ 2735' - est.

LOGS:

Date	Company	Log Name
5/25/60	Schlumberger	Sonic, LL, GRN, MLL

DST's:

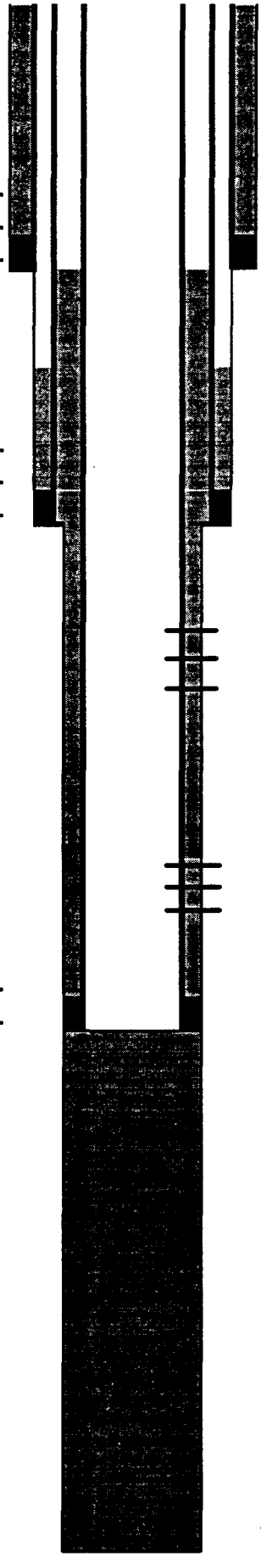
INITIAL COMPLETION: IP Blinebry (5416-5589'), F 168, 17 BW, A/6000, TP 250#
Tubb (5696-5841'), F 360 BO, TP 250#, A/10,000

INITIAL COMPLETION DATE: 5/30/60

TREATMENTS AND WORKOVERS

6-60	Perf Paddock 88/4862-84'. Swbd 8 BFH (50% wtr), Sqzd 225 sx
6-69	New Blinebry perfs 5221', 39', 47', 55', 65', 80', A/6000
6-70	New Blinebry perfs 4/5052-54', 8/5064-68', 8/5086-90'. F/30,000 gals BW, 45,000# sd (5052-5430')

WELLBORE SCHEMATIC



South Justis Unit H #26

(ARCO/Bruno Carlson B-25 #2)
990' FSL & 660' FEL (P)
Sec 25, T-25S, R-37E, Lea Co., NM
KB-3057'
Spudded 08/20/59
Completed 11/04/59

17-1/2" Hole.
13-3/8" casing @ 430'.
Set w/435 sxs cmt. Circ.

TOC @ 1830' By TS

TOC @ 1411' by TS

12-1/4" Hole.
9-5/8" casing @ 3306'.
Set w/425 sxs cmt.

Blinebry Perfs @ 5004' to 5203'

Tubb/Drinkard Perfs @ 5722' to 5824'

8-3/4" hole.
7" csg @ 5930' w/500 sxs cmt.

PBD @ 5930'

TD @ 7715'.

SOUTH JUSTIS UNIT "H" #26

LOCATION: 990' FSL & 660' FEL (P), SEC. 25, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: BRUNO/ARCO OIL AND GAS COMPANY

FORMER WELL NAME: CARLSON B-25 #2

BLM TRACT NUMBER: 21 **API NUMBER:** 3002511778

SPUD DATE: 8/20/59

KB: 3057' GL: 3044' TD: 7715' PBTD: 5930'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			430'	435 sxs cmt, circ
9-5/8"			3306'	425 sxs cmt, (TOC @ 1411'-TS)
7"			5930'	500 sxs cmt, (TOC @ 1830'-TS)

LOGS:

Date	Company	Log Name
10/22/59	PGAC	GR-N, LL, ML

DST's:

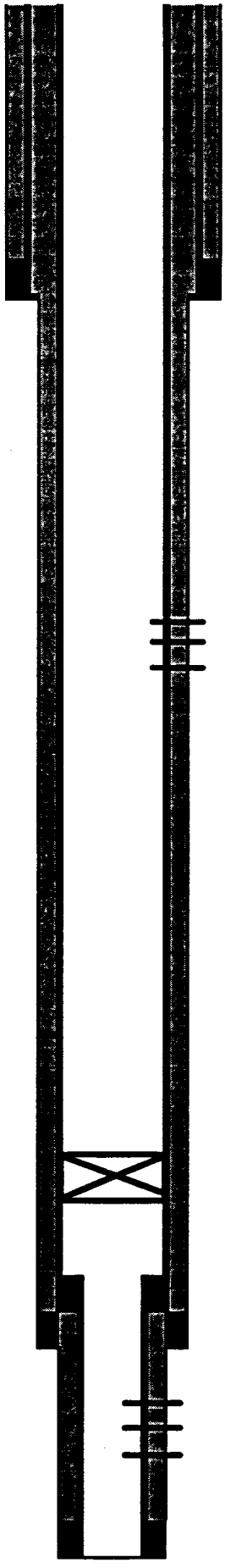
INITIAL COMPLETION: IP Blinebry (5004-58'), A/7000, F 228 BO, GOR 1350, TP 320#, Gravity 40°
Tubb (5722-5824'), A/6000, F 672 BO, GOR 1200, TP 350#, Gravity 38°

INITIAL COMPLETION DATE: 11/4/59

TREATMENTS AND WORKOVERS

6-69 New Blinebry perfs 5094', 96', 5133', 35', 37', 75', 90', 93', 5202', 03', A/6000

WELLBORE SCHEMATIC



Carlson B-25 Fed #4

Bruno/ARCO Oil and Gas Company
990' FSL & 990' FEL (P)
Sec. 25, T-25S, R-37E, Lea Co., NM
KB 3064'
Spudded 02/25/60
Completed 04/07/60

17-1/2" hole.
13-3/8" casing @ 848'.
Set w/900 sxs cmt. Circ.

Tubb/Drinkard Perfs @ 5719' to 5968'

CIBP @ 6200'

8-3/4" hole.
7" csg @ 6763'.
Set w/700 sxs cmt..

6-3/4" Hole
5-1/2" Liner @ 6675' to 6927' w/ 30 sxs cmt.

Fusselman Perfs @ 6872' to 6918'
TA'd 1974

TD @ 6927'.

CARLSON B-25 FED #4

LOCATION: 990' FSL & 990' FEL (P), SEC. 25, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: BRUNO/ARCO OIL AND GAS COMPANY

BLM TRACT NUMBER: 21 **API NUMBER:** 3002511784

SPUD DATE: 2/25/60

KB: 3064' GL: TD: 6927' PBTD:

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			848'	900 sxs cmt, circ
7"			6763'	700 sxs cmt, circ
5-1/2"	Lnr		6675-6927'	30 sxs cmt

LOGS:

Date	Company	Log Name
4/6/60	Schlumberger	GR-N, MLL
2/20/62	Lane Well	Sonic, GRN

DST's:

INITIAL COMPLETION: IP Drinkard (5913-68'), A/1000, F 408 BO, 100# TP, Gravity 38°
Fusselman (OH 6771-6895'), A/3500, F 168 BO, Gravity 38°

INITIAL COMPLETION DATE: 4/7/60

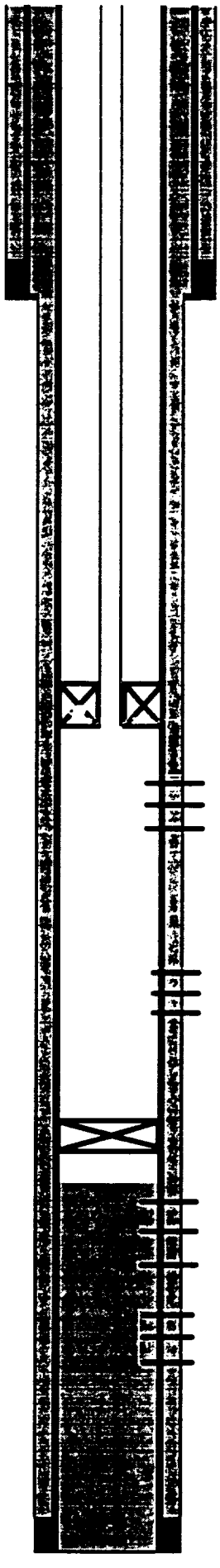
TREATMENTS AND WORKOVERS

3-62 Deepened 6927'. Set 5-1/2" liner 6675-6927' - 30 sx
Fusselman Perfs 6872-6918'

3-69 New Tubb/Drinkard perfs 5719', 29', 31', 58', 61', 64', 80', 92', 5809', 11', A/2000, CIBP 6200

10-74 Fusselman TA'd

WELLBORE SCHEMATIC



South Justis Unit H #260

(Bruno/ARCO Carlson B-25 Fed #6)
330' FSL & 990' FEL (P)
Sec. 25, T-25S, R-37E, Lea Co., NM
KB 3062'
Spudded 10/19/67
Completed 11/16/67

12-1/4" hole.
9-5/8" casing @ 841'.
Set w/750 sxs cmt. Circ.

2-3/8" PVC tubing @ 5000'
Otis Interlock Packer @ 5000'

Blinebry Perfs @ 5100' to 5271'.

Proposed Additional Perfs @ 5300' to 6100'

Proposed CIBP @ 6200'

PBD @ 6880'
Fusselman Perfs @ 6815' to 6819'

Fusselman Perfs @ 6882' to 6899'

8-3/4" hole.
7" csg @ 6947'.
Set w/1190 sxs cmt. Circ.

TD @ 6950'.

SJU 'H' #260

LOCATION: 330' FSL & 990' FEL (P), SEC. 25, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: BRUNO/ARCO OIL AND GAS COMPANY

FORMER WELL NAME: CARLSON B-25 #6

BLM TRACT NUMBER: 21 **API NUMBER:** 3002522262

SPUD DATE: 10/19/67

KB: 3062' GL: 3051' TD: 6950' PBTD: 6880'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"			841'	750 sxs cmt, circ
7"	23#	J-55/N-80	8230'	1190 sx cmt, circ

LOGS:

Date	Company	Log Name
11/13/67	Schlumberger	FDC, SNP, L

DST's:

INITIAL COMPLETION: IP Fusselman (6815-69'), F 360 BOPD, TP 175#, GOR 166, Gravity 38.5°

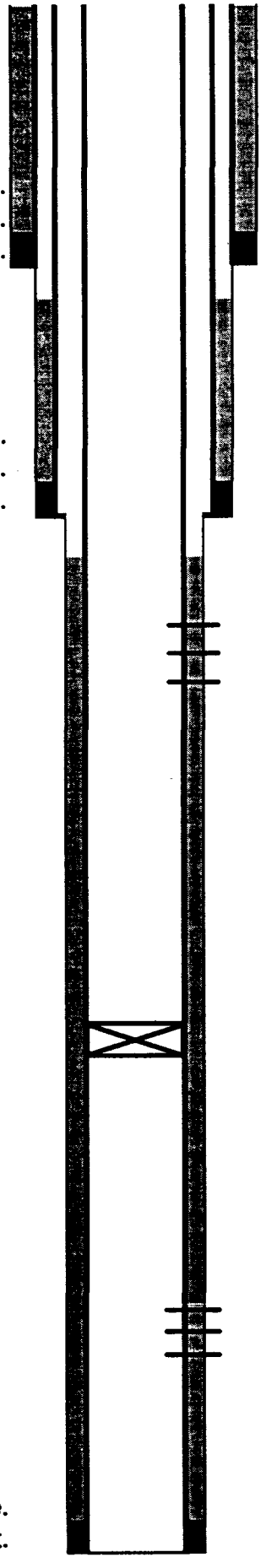
INITIAL COMPLETION DATE: 11/16/67

TREATMENTS AND WORKOVERS

3-72 New Fusselman perfs 6882', 83', 85', 94', 6895', 97', 98', 99'
Swbd 10 BW/Hr. PBD 6880'

3-74 Blinebry perfs 40/4993-5271', F/80,000 gals & 120,000#.
P 35 BO, 35 BW, GOR 300, Gravity 37°

WELLBORE SCHEMATIC



South Justis Unit D #23

(AHC/ARCO Ida Wimberley #10)
660' FNL & 330' FEL (A)
Sec 26, T-25S, R-37E, Lea Co., NM
KB-3082'
Spudded 04/01/59
Completed 04/28/59

17-1/2" Hole.
13-3/8" casing @ 496'.
Set w/400 sxs cmt. Circ.

TOC @ 1411' by TS

12-1/4" Hole.
9-5/8" casing @ 3328.
Set w/1500 sxs cmt.

TOC @ 3675' By TS

Blinebry Perfs @ 5051' to 5453'

CIBP @ 5500'

Tubb/Drinkard Perfs @ 5874' to 5945'

8-3/4" hole.
7" csg @ 5953' w/375 sxs cmt.

TD @ 5954'.

SOUTH JUSTIS UNIT "D" #23

LOCATION: 660' FNL & 330' FEL (A), SEC. 26, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: IDA WIMBERLEY #10

BLM TRACT NUMBER: 51 **API NUMBER:** 3002511793

SPUD DATE: 4/1/59

KB: 3082' GL: 3070' TD: 5954' PBTD: 5949'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			496'	400 sxs cmt, circ
9-5/8"			3328'	1500 sxs cmt, (TOC @ 1411' - TS)
7"			5953'	375 sxs cmt, (TOC @ 3675' - TS)

LOGS:

Date	Company	Log Name
4/23/59	Schlumberger	GR-N, ML, EL

DST's:

1	Drinkard	5875-5950'	Opened tool & had good blow air; gas to surface in 6 min, oil to surf in 1.5 hrs. Gas rate increased from 36,542 to 103,550 CFPD during first 1.5 hours; choke then increased from 1/4" to 1/2". Total flow time 4 hours 10 mins. Reversed out 22 BO and 3 bbl mud and oil w/est 50% oil cut; gravity of oil 36.5° API. Rec below TC valve: 87' oil & 3 gal salty sulf wtr. HI 2915, HO 2915, IFP 200, FFP 964, 10 min BUP 1355, 20 min BUP 2040, 30 min BUP, 2310 psi & increasing.

INITIAL COMPLETION: IP Blinebry (5322-5453'), Flwd at rate of 337 BOPD, Gravity = 32.9° API, GOR = 1043 SCF/STB
IP Drinkard (5874-5945'), Flwd at rate of 119 BOPD, Gravity = 36.6° API, GOR = 933 SCF/STB

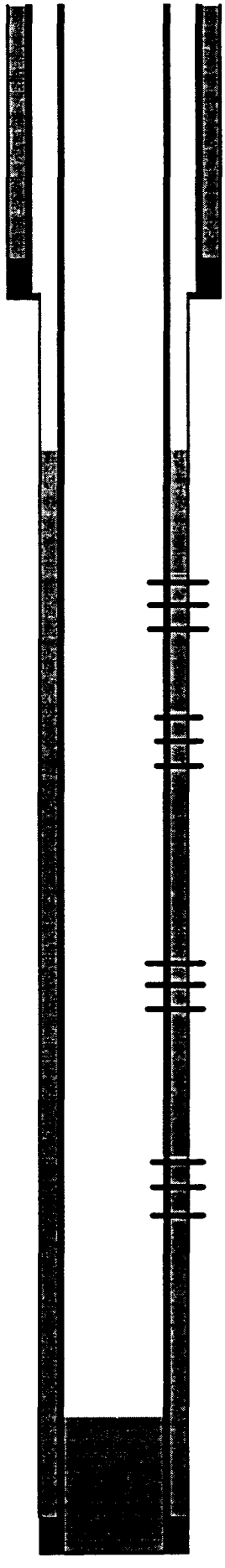
SOUTH JUSTIS UNIT "D" #23

INITIAL COMPLETION DATE: 4/28/59

TREATMENTS AND WORKOVERS

4-19-62	Began gas lift in Blinebry
3-5-64	Began gas lift in Drinkard
12-28-67	Added Blinebry perfs from 5051-5316'. Frac'd Blinebry perfs from 5051' to 5453' w/68,000 gal gelled brine, 2000 gal 15% NE acid & 102,000# 20-40 sand. Acidized Drinkard perfs from 5874-5945' w/5000 gal 15% acid.
1-24-68	Drinkard perfs from 5874-5945' chemically treated with 5000 gal fresh water mixed with 5 gal 225-X, 3 gal GYP-3, 20# FR-4, 18 BO, & 200 # minibeads. Drinkard zone abandoned, P.B.D. 5500'
9-23-79	Blinebry completion changed from gas lift to pumping
3-82	Added Blinebry perfs 5051-5316' A/3000 gals (5051-5453'). F/70,000 gals & 99,000# sd (5051-5453') A/5000 gals (5874-5945'), Set CIBP @ 5500'

WELLBORE SCHEMATIC



South Justis Unit C #23

(ARCO Carlson Federal (JH) #1)
330' FNL & 1650' FEL (B)
Sec. 26, T-25S, R-37E, Lea Co., NM
KB 3066'
Spudded 06/30/64
Completed 08/06/64

11" hole.
8-5/8" casing @ 965'.
Set w/350 sxs cmt. Circ.

TOC @ 2470' (Measured)

Sqzd Paddock perfs @ 4851' to 4955'.

Paddock Perfs @ 4990' to 5058'

Blinebry Perfs @ 5092' to 5635'

Tubb/Drinkard Perfs @ 5747' to 5962'
Inactive

PBD @ 5982'

8-3/4" hole.
5-1/2" csg @ 6050' w/825 sxs cmt.

TD @ 6050'.

SOUTH JUSTIS UNIT "C" #23

LOCATION: 330' FNL & 1650' FEL (B), SEC. 26, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: CARLSON FEDERAL (JH) #1

BLM TRACT NUMBER: 24 **API NUMBER:** 3002521057

SPUD DATE: 6/30/64

KB: 3066' GL: 3056' TD: 6050' PBTD: 5982'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"			965'	350 sxs cmt, circ
5-1/2"			6050'	825 sxs cmt, (TOC @ 2470' - Measured)

LOGS:

Date	Company	Log Name
7/15/64	Schlumberger	Sonic, LL, MLL

DST's:

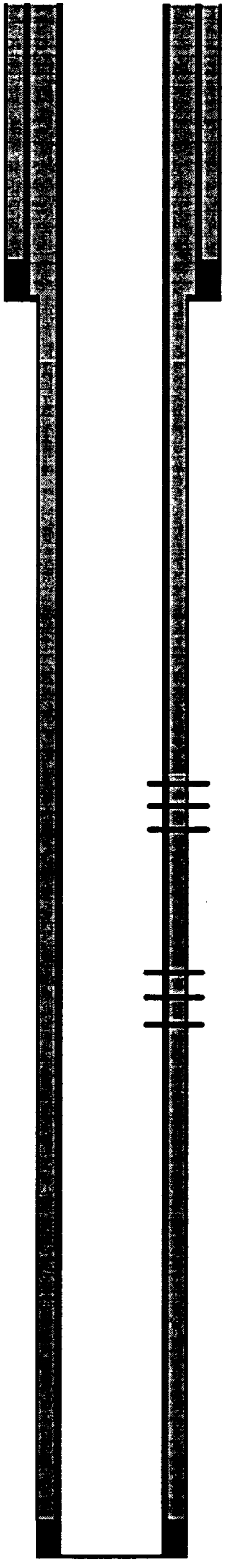
INITIAL COMPLETION: IP Blinebry (5092-5635'), P 210 BO, 194 BW, GOR 505
Paddock (4851-5058'), F 10 BO, 23 BW, GOR 1450,
TP 800#

INITIAL COMPLETION DATE: 8/6/64

TREATMENTS AND WORKOVERS

Blinebry Perfs:	5092',5116', 29', 5244', 75', 5369', 5460', 5563', 65', 67', 5635', A/2000, F/25,000 gals oil, 25,000# sd
Paddock Perfs:	5841-69', 4907', 19', 28', 32', 41', 48', 55', 90', 98', 5008', 20', 58', A/1500, F/25,000 oil, 25,000 sd
11-64	Set BP @ 4980' w/10' sand on top Sqz Paddock perfs 4851-4955' w/200 sx, Drld out cmt & POH w/BP. Test 4990-5638', F 201 BOPD
7-70	Frac'd Blinebry perfs 5092-5636' w/60,000 gals GBW, 90,000# 20/40 sd.

WELLBORE SCHEMATIC



South Justis Unit C #24

(ARCO Carlson Federal (JH) #2)
1750' FNL & 1650' FEL (G)
Sec. 26, T-25S, R-37E, Lea Co., NM
KB 3060'
Spudded 10/22/64
Completed 11/24/64

12-1/4" hole.
9-5/8" casing @ 890'.
Set w/500 sxs cmt. Circ.

Sqzd Paddock perfs @ 4987' to 5042'.

Blinebry Perfs @ 5109' to 5691'

8-3/4" hole.
7" csg @ 5830'.
Set w/1190 sxs cmt. Circ.

TD @ 5830'.

SOUTH JUSTIS UNIT "C" #24

LOCATION: 1750' FNL & 1650' FEL (G), SEC. 26, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: CARLSON FEDERAL (JH) #2

BLM TRACT NUMBER: 24 **API NUMBER:** 3002520967

SPUD DATE: 10/22/64

KB: 3060' GL: 3050' TD: 5830' PBTD:

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"			890'	500 sxs cmt, circ
7"			5830'	1190 sxs cmt, circ

LOGS:

Date	Company	Log Name
11/6/64	Schlumberger	Sonic, LL, MLL

DST's:

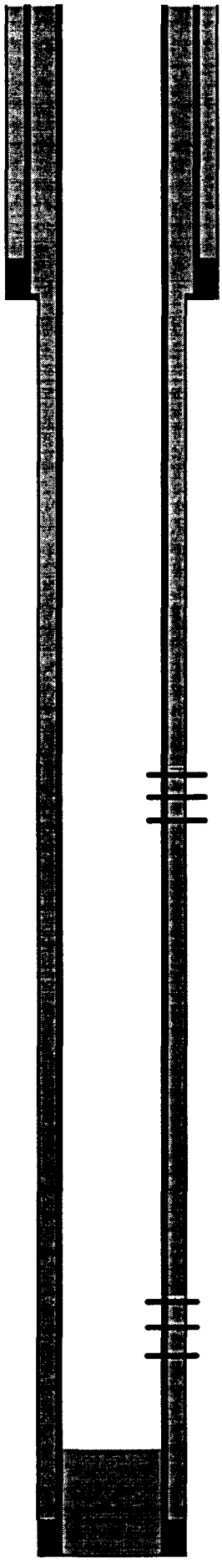
INITIAL COMPLETION: IP Paddock (4987-5052'), F 88 BO, 272 BW, TP 100#, Gravity 34°
Blinebry (5109-5691'), F 144 BO, 75# TP, Gravity 35°

INITIAL COMPLETION DATE: 11/24/64

TREATMENTS AND WORKOVERS

Blinebry perfs:	5109', 25', 39', 5244', 82', 95', 5379', 5413', 45', 50', 75', 85', 5507', 13', 37', 47', 72', 5605', 11', 69', 91', A/3000, F/25,000-oil, 20,000# sd
Paddock perfs	4987', 93', 5003', 15', 34', 42', A/2000, F/20,000/20,000
4-70	Sqzd Paddock perfs 4987-5042' w/100 sx, Frac'd Blinebry w/60,000 gals frac fluid & 90,000# sd

WELLBORE SCHEMATIC



South Justis Unit D #24

(Meridian Carlson B #2)
1650' FNL & 330' FEL (H)
Sec. 26, T-26S, R-37E, Lea Co., NM
KB 3074'
Spudded 07/14/59
Completed 09/24/59

17-1/2" hole.
13-3/8" casing @ 859'.
Set w/700 sxs cmt. Circ.

Blinebry Perfs @ 5410' to 5456'.

Tubb/Drinkard Perfs @ 5788' to 5826'

8-3/4" hole.
7" csg @ 5985'.
Set w/650 sxs cmt. Circ.

PBD @ 5952'

TD @ 5985'.

SOUTH JUSTIS UNIT "D" #24

LOCATION: 1650' FNL & 330' FEL (H), SEC. 26, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: MERIDIAN

FORMER WELL NAME: CARLSON "B" #2

BLM TRACT NUMBER: 16 **API NUMBER:** 3002511794

SPUD DATE: 7/14/59

KB: 3074' GL: 3063' TD: 5985' PBTD: 5952'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			859'	700 sxs cmt, circ
7"			5985'	650 sxs cmt, circ

LOGS:

Date	Company	Log Name
8/21/59	Welex	GR-N, Guard

DST's:

1	4871-4970'	Op 2', rec 270' SGCM, 390' XW, FP 260-395; SI 15"/600
2	5180-5260'	Op 3', G 10", rec 2560' oil, G 37.7; 280' XW, FP 196-530; SI 30"/2054
3	5310-5410'	Op 4', G 2' 23", rec 165' GCWCM, FP 100-142; SI 30"/54
4	5410-55'	Op 3', G 43", rec 270' oil, 90' SMC Oil, FP 72-145; SI 30"/640
5	5730-5813'	Op 2' 45 min, gas 7 min, mud 1 hr 45 min, oil 2 hr, F est 1000 MCF, 10 BOPD
6	5830-60'	Op 1-1/2', rec 20' SGCM, FP 30-30, SI 15"/45
7	5880-5935'	Op 1' 10 min, rec 330' SGCM, FP 130-215, SI 10"/255

SOUTH JUSTIS UNIT "D" #24

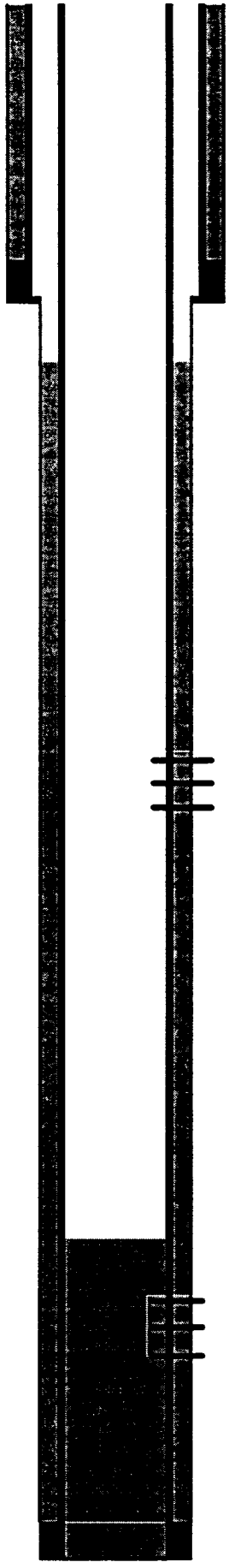
8	5935-50'	Op 2' 40 min, rec 25' mud
9	5950-85'	Op 2', rec 390' SOMCXSW, FP 57-229, SI 30"/2236

INITIAL COMPLETION: IP Blinebry (5410-56') A/2500, F 66 BO, 17 BW, GOR 1440
Tubb/Drinkard (5788-5826') A/500, F 65 BO, GOR 1090,
TP 570#

INITIAL COMPLETION DATE: 9/24/59

TREATMENTS AND WORKOVERS

WELLBORE SCHEMATIC



South Justis Unit D #25

(Bruno Carlson B-26 #5)
2310' FSL & 330' FEL (I)
Sec. 26, T-25S, R-37E, Lea Co., NM
KB 3069'
Spudded 01/08/60
Completed 03/03/60

14-3/4" hole.
11-3/4" casing @ 851'.
Set w/700 sxs cmt. Circ.

TOC @ 1332' (Calculated)

Blinebry Perfs @ 5054' to 5380'.

PBD @ 5824'

Tubb/Drinkard Perfs @ 5880' to 5930'

8-3/4" hole.
7" csg @ 6250'.
Set w/700 sxs cmt.

TD @ 6250'.

SOUTH JUSTIS UNIT "D" #25

LOCATION: 2310' FSL & 330' FEL (I), SEC. 26, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: BRUNO

FORMER WELL NAME: CARLSON B-26 #5

BLM TRACT NUMBER: 20 **API NUMBER:** 3002511797

SPUD DATE: 1/8/60

KB: 3069' GL: 3057' TD: 6250' PBTD: 5824'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
11-3/4"			851'	700 sxs cmt, circ
7"			6250'	700 sxs cmt

LOGS:

Date	Company	Log Name
2/12/60	Schlumberger	GR-N, LL, MLL

DST's:

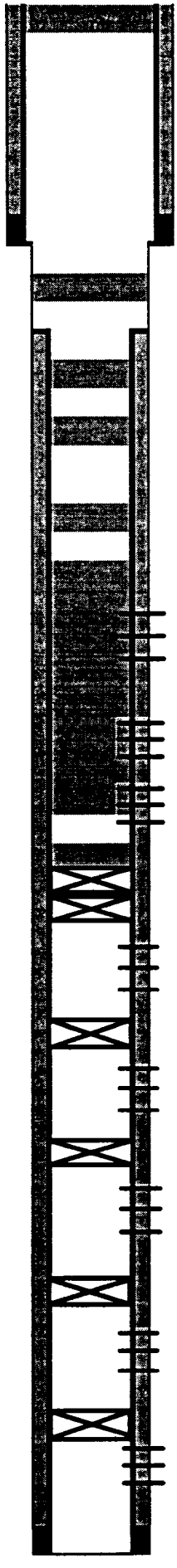
INITIAL COMPLETION: IP Blinebry (5054-98'), A/8000, F 380 BO, GOR 450, TP 300#, Gravity 38°
Tubb/Drinkard (5880-5930') A/1000, F 398 BO, TP 400, Gravity 37.5°

INITIAL COMPLETION DATE: 3/3/60

TREATMENTS AND WORKOVERS

5-68 New Blinebry perfs 5218, 43', 59', 5302', 25', 5340', 47', 48', 80', A (5054-5380') 6000 gals, PB to 5824'

WELLBORE SCHEMATIC



Cmt Plug (10 sxs) @ surface.

14-3/4" hole.
11-3/4" casing @ 827'.
Set w/670 sxs cmt. Circ.

Cmt Plug (65 sxs) @ 925'.

8-3/4" hole.
7" csg @ 6043' w/725 sxs cmt.

Carlson B-26 #7

Westates
2310' FSL & 1650' FEL (J)
Sec. 26, T-26S, R-37E, Lea Co., NM
KB 3044'
Spudded 08/06/60
Completed 09/28/60

Top of 7" csg @ 1315'
Cmt Plug (65 sxs) @ 1363'

Cmt plug (35 sxs) @ 2348'

Cmt Plug (25 sxs) @ 3701'

Cmt Plug (100 sxs) @ 4808' to 5326'

Paddock Perfs @ 5042' to 5060'

Blinebry Perfs @ 5110' to 5162'.

Blinebry Perfs @ 5310' to 5371'

CIBP @ 5410' w/2 sxs on top
BP @ 5418'

Perfs @ 5470' to 5518'

BP @ 5530'

Sqzd Tubb/Drinkard Perfs @ 5564' to 5590'

BP @ 5595'

Tubb/Drinkard Perfs @ 5605' to 5618'

BP @ 5741'

Sqzd Tubb/Drinkard Perfs @ 5784' to 5800'

BP @ 5855'
Sqzd Tubb/Drinkard Perfs @ 5860' to 5944'

TD @ 6050'.

CARLSON B-26 #7

LOCATION: 2310' FSL & 1650' FEL (J), SEC. 26, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: WESTATES PETROLEUM COMPANY

BLM TRACT NUMBER: 21 **API NUMBER:** 3002511802

SPUD DATE: 8/6/60

KB: 3044' GL: 3031' TD: 6050' PBTD:

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
11-3/4"			827'	670 sxs cmt, circ
7"			6043'	725 sxs cmt

LOGS:

Date	Company	Log Name
9/2/60	Schlumberger	GR-N, LL, MLL

DST's:

INITIAL COMPLETION: IP Paddock (5042-60') Swb 288 BO, 54 BW
Blinebry (5110-62'), F 56 BO, 100# TP

INITIAL COMPLETION DATE: 9/28/60

TREATMENTS AND WORKOVERS

Perf 5860-70', 88-92'. A/1000, Swbd 1/8 bbl BSW/hr. Sqzd 50 sxs. PB 6025'

Perf 5944-54', 58-62', 80-6000. A/3000, Swbd 5-6 B/H (95% SW). BP 5855'

Perf 5784-5800', 30-50. A/500, 98% wtr, Sqzd 5784-6000 w/125 sxs. BP 5741'

Perf 5605-18', 20-27', 30-44', 50-54, A/4500, 300 BFD (20% Oil) BP 5595

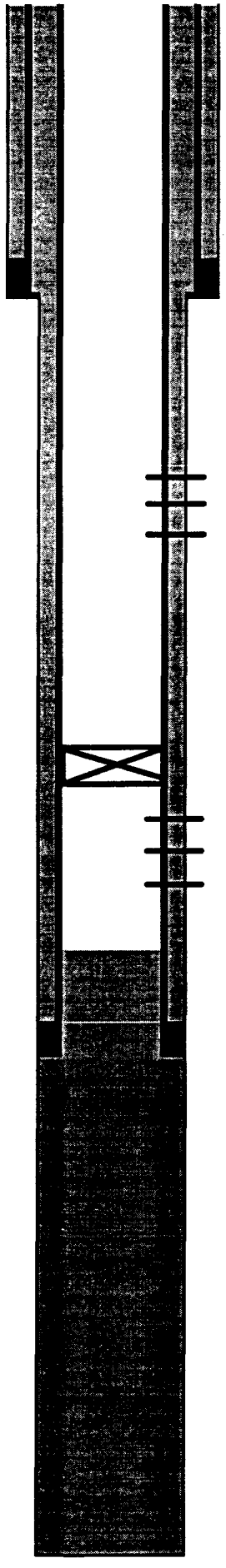
Perf 5564-90', 10-12 BFH, 98% SW, BP 5595, Sqzd 5564-90', w/100 sxs, BP 5530

Perf 5470-5518', A/3000 S, 14 BFH (20% oil), BP 5418

Blinebry Perfs: 16/5110-14', 12/5117-20', 80/5122-42', 20/5145-50', 16/5158-62', A/500, SI 12-69. P&A 1975

8-75 P&A'D

WELLBORE SCHEMATIC



Sunray #1

Union Texas
1980' FSL & 1980' FWL (K)
Sec. 26, T-25S, R-37E, Lea Co., NM
KB 3030'
Spudded 10/08/68
Completed 06/23/69
Well TA'd 06/17/79

11" hole.
8-5/8" casing @ 893'.
Set w/470 sxs cmt. Circ.

Queen Perfs @ 3100' to 3232'

Cmt Retainer @ 5199'

Sqzd Blinebry Perfs @ 5288' to 5779'

6-3/4" hole.
4-1/2" csg @ 5917'.
Set w/900 sxs cmt. Circ.

PBD @ 5869'

TD @ 7795'.

SUNRAY #1

LOCATION: 1980' FSL & 1980' FWL (K), SEC. 26, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: UNION TEXAS

BLM TRACT NUMBER: **API NUMBER:** 3002522788

SPUD DATE: 10/8/68

KB: 3030' GL: 3019' TD: 7795' PBTD: 5869'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"			893'	470 sxs cmt, circ
4-1/2"			5917'	900 sxs cmt, circ

LOGS:

Date	Company	Log Name
11/19/68	Schlumberger	Sonic, SNP, FDC, LL, MLL

DST's:

1	7215-30'	Op 1', rec 30" O&GCM, 1' ISIP 1266, FP 57-57, 2' FSIP 1154
2	7772-95'	Op 3', rec 2350' SW, 1' ISIP 2610, FP 87-1063, 3' FSIP-2610
3	5590-5827'	Op 2' 20", rec 900' HGCDF & 200' HO&GC SW & 2200' GCSW, 1' ISIP 2377, FP 507-1263, 4' FSIP-2327

INITIAL COMPLETION: IP Blinebry perfs 5288-5779', P 20 BO, 310 BW

INITIAL COMPLETION DATE: 6/23/69

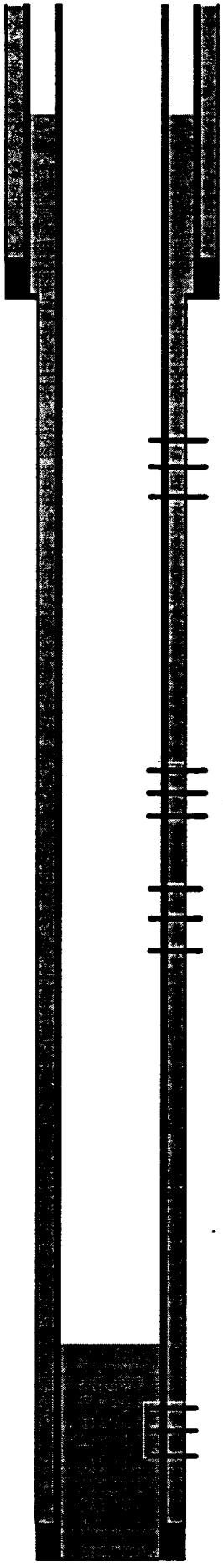
TREATMENTS AND WORKOVERS

P&A'd 11/23/68

SUNRAY #1

1969	Drilled out cement. Ran 4-1/2" csg to 5917'. TD 7795', PBD 5869'. Perf 5288-5779' (Blinebry). Acidize 2000 gals. Frac w/35,000 gals and 46,000# sd.
1976	Sqzd Blinebry 5288-5779' w/200 sxs. Perf 3180-3232' (Langlie-Mattix Queen). Perf 3100-3150' (Langlie-Mattix Queen). Frac w/20,000 gals and 26,500# sand.
1979	TA well.

WELLBORE SCHEMATIC



South Justis Unit D #26

(Bruno Carlson B-26 #6)
990' FSL & 330' FEL (P)
Sec. 26, T-25S, R-37E, Lea Co., NM
KB 3048'
Spudded 06/20/60
Completed 08/07/60

TOC @ 729' (Calculated)

14-3/4" hole.
11-3/4" casing @ 843'.
Set w/700 sxs cmt. Circ.

Sqzd Paddock Perfs @ 4910' to 4920'

Blinebry Perfs @ 5113' to 5560'.

Sqzd Blinebry Perfs @ 5631' to 5667'

PBD @ 5824'

Sqzd T/D Perfs @ 5810' to 5986'

8-3/4" hole.
7" csg @ 5998'.
Set w/750 sxs cmt.

TD @ 6000'.

SOUTH JUSTIS UNIT "D" #26

LOCATION: 990' FSL & 330' FEL (P), SEC. 26, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: BRUNO

FORMER WELL NAME: CARLSON B-26 #6

BLM TRACT NUMBER: 21 **API NUMBER:** 3002511798

SPUD DATE: 6/20/60

KB: 3048' GL: 3035' TD: 6000' PBTD: 5824'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
11-3/4"			843'	700 sxs cmt, circ
7"			5998'	750 sxs cmt

LOGS:

Date	Company	Log Name
7/15/60	Schlumberger	GR-N, LL, MLL, Sonic

DST's:

INITIAL COMPLETION: IP Blinebry (5056-84') A/3500, F 528, TP 700
Tubb/Drinkard (5810-20') A/3500, F 480 BO, TP 125

INITIAL COMPLETION DATE: 8/7/60

TREATMENTS AND WORKOVERS

Perf 5912-22' (40) A/1000, F 14 BLO/H - 14% wtr, BP 5904, Perf'd 32/5892-5900', swbd 80% wtr, POH w/BOP.

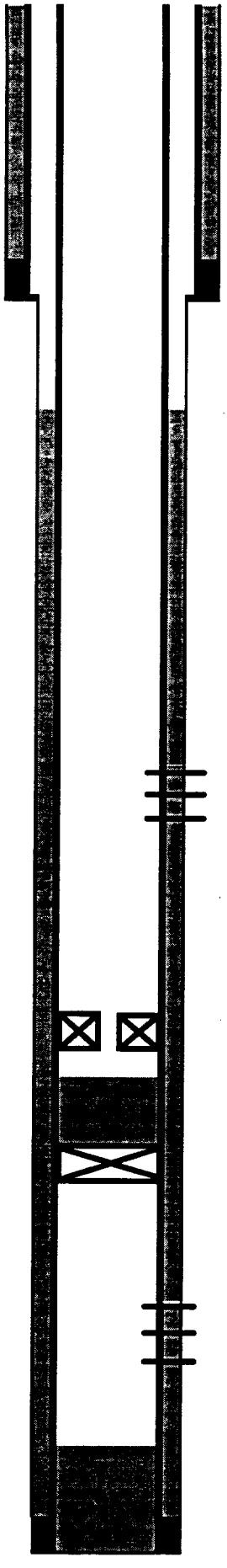
Perf 5952-54', 62-72', 78-86', Sqzd 5892-5922 - 100 sxs, Sqzd 5952-86 - 100 sxs.

Perf 5631-37', 45-49', 65-67', A/1000, Sw 4 BOPH (90% wtr), Sqz 5631-67'-100 sxs.

SOUTH JUSTIS UNIT "D" #26

	Perf Paddock (4910-20') A/3500 gals, F 4BO/H. Sq 4910-20' - 100 sxs
3-68	New Blinebry perfs 5251', 72', 82', 5310', 19', 29', 44', 49', 54', 87' A/6500 (5251-5387') A 5810-20' w/13,500 gals
10-79	New Blinebry perfs 5113-99', 5230-5386', 5420-48', 5510-60' A/15,500 gals, P 41 BO, 28 BW

WELLBORE SCHEMATIC



South Justis Unit D #27

(ARCO Federal 35-1)
330' FNL & 330' FEL (A)
Sec. 35, T-25S, R-37E, Lea Co., NM
KB 3038'
Spudded 02/28/62
Completed 03/19/62

12-1/4" hole.
9-5/8" casing @ 905'.
Set w/400 sxs cmt. Circ.

TOC @ 2100' by TS

Blinebry Perfs @ 5044' to 5395'.

Pkr @ 5312'

CIBP @ 5650' w/27' cmt on top

Tubb/Drinkard Perfs @ 5831' to 5850'

8-3/4" hole.
7" csg @ 5918'.
Set w/750 sxs cmt.

PBD @ 5880'

TD @ 5925'.

SOUTH JUSTIS UNIT "D" #27

LOCATION: 330' FNL & 330' FEL (A), SEC. 35, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: FEDERAL 35-1

BLM TRACT NUMBER: 13 **API NUMBER:** 3002511892

SPUD DATE: 2/28/62

KB: 3038' GL: 3028' TD: 5925' PBTD: 5880'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"	32#	J-55	905'	400 sxs cmt, circ
7"	23#		5918'	750 sxs cmt, (TOC @ 2100' - TS)

LOGS:

Date	Company	Log Name
3/19/62	Schlumberger	Sonic, LL, MLL

DST's:

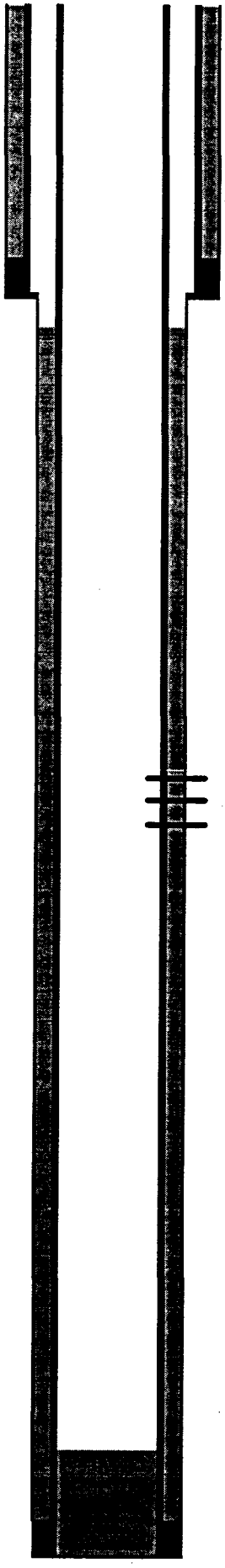
INITIAL COMPLETION: IP Blinebry (5064-84'), F 85 BO, TP 250#
Tubb (5831-50'), F 65 BO, 5 BW, TP 275#

INITIAL COMPLETION DATE: 3/19/62

TREATMENTS AND WORKOVERS

10-66	Add Blinebry perfs 5172', 94', 5218', 5311', A/2000. F/30,000 gals GLO, 45,000# sd.
Blinebry Perfs:	5044-88', 5104-15', 24-28', 34-52', 70-78', 89-5200', 02-04', 10-12', 18', 64-74', 5311', 59-64', 91-95'.
Tubb/Drinkard:	5831-34', 40-50'

WELLBORE SCHEMATIC



South Justis Unit D #28

(Meridian Gregory Federal A-1)
1650' FNL & 330' FEL (H)
Sec. 35, T-25S, R-37E, Lea Co., NM
KB 3031'
Spudded 06/16/64
Completed 08/01/64

TOC @ 950' by TS

12-1/4" hole.
8-5/8" casing @ 885'.
Set w/550 sxs cmt. Circ.

Blinebry Perfs @ 5270' to 5369'.

7-7/8" hole.
4-1/2" csg @ 5800'.
Set w/566 sxs cmt.

PBD @ 5760'

TD @ 5800'.

SOUTH JUSTIS UNIT "D" #28

LOCATION: 1650' FNL & 330' FEL (H), SEC. 35, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: MERIDIAN

FORMER WELL NAME: GREGORY FEDERAL A-1

BLM TRACT NUMBER: 14 **API NUMBER:** 3002520993

SPUD DATE: 6/16/64

KB: 3031' GL: 3018' TD: 5800' PBTD: 5760'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"			855'	550 sxs cmt, circ
4-1/2"			5800'	566 sxs cmt, (TOC @ 950' - TS)

LOGS:

Date	Company	Log Name
7/7/64	Welex	Sonic, Guard

DST's:

INITIAL COMPLETION: IP Blinebry (5270-5369'), F/20,000 gals oil, 20,000# sd F 69 BO, 12 BW, TP 400, Gravity 38°

INITIAL COMPLETION DATE: 8/1/64

TREATMENTS AND WORKOVERS

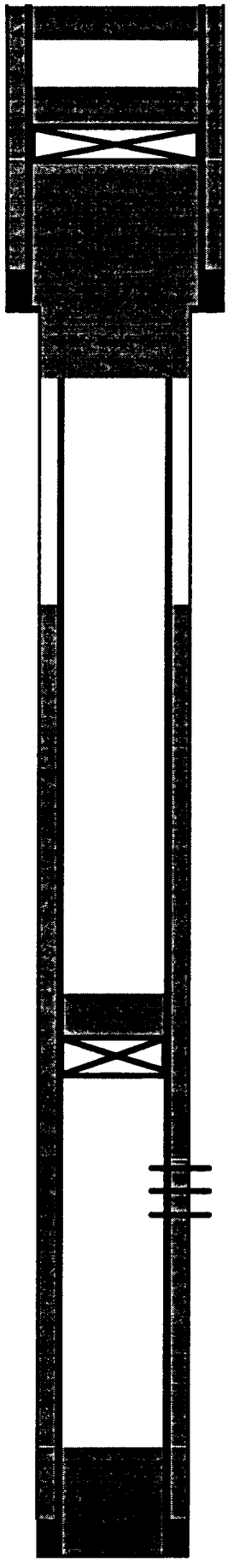
WELLBORE SCHEMATIC

Cmt Plug w/10 sxs cmt to surface.

Cmt Ret @ 780' w/20 sxs on top.

12-1/4" hole.
8-5/8" casing @ 887'.
Set w/500 sxs cmt. Circ.

Top of 4 1/2" csg @ 1000'.



Gregory Federal #1

ARCO Oil and Gas Company
2310' FSL & 330' FEL (I)
Sec. 35, T-25S, R-37E, Lea Co., NM
KB 3030'
Spudded 12/29/63
Completed 01/26/64
P&A'd 03/15/75

TOC @ 3000' by TS

CIBP @ 4950' w/10 sxs cmt

Blinebry Perfs @ 5197' to 5396'.

7-7/8" hole.
4-1/2" csg @ 5799'.
Set w/576 sxs cmt.

PBD @ 5764'

TD @ 5800'.

GREGORY FEDERAL #1

LOCATION: 2310' FSL & 330' FEL (I), SEC. 35, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: ARCO OIL AND GAS COMPANY

BLM TRACT NUMBER: **API NUMBER:** 3002520131

SPUD DATE: 12/29/63

KB: 3030' GL: TD: 5800' PBTD: 5764'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"	24#		887'	500 sxs cmt
4-1/2"	10.5#	J-55	5799'	576 sxs cmt (TOC @ 3000'-TS)

LOGS:

Date	Company	Log Name
1/19/64	Schlumberger	Sonic, LL, MLL

DST's:

INITIAL COMPLETION: IP Blinebry (5347-78', 87-96') 4 spf. A/500+500 SOF/16.7/19. SD OUT. OPT 256 BOPD

INITIAL COMPLETION DATE: 12/29/63

TREATMENTS AND WORKOVERS

7-64 Put on rod pump

6-66 Perf Blinebry 5212', 31', 41', 67', 82', 5197', 5200', A/1500. SOF/29/29. Channeled to 4886' (RA tracer). Perf 5139-40' (4 spf). Sqz 25 sx

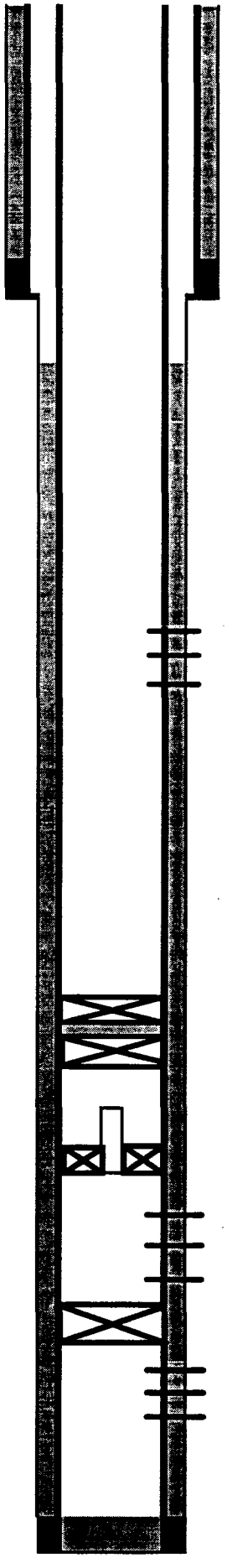
3-69 WIH w/CIBP - set @ 136'. Pushed to 4950', Set CIBP @ 4937'. Spotted cmt 4787-4937'

3-75 Spotted cmt 3000-3770'. Tag cmt 2900' w/W.L. Cut 4-1/2" csg @ 2875'. Stuck. Cut @ 1000' & pulled. Set CR @ 780'. Spotted 20 sx on top of CR. Spotted 10 sx @ surf. Well P&A 4:00 3/15/75

GREGORY FEDERAL #1

On 3-13-75 RU & installed BOP. WIH w/tbg OE to 4800' & circulated hole w/heavy mud. Picked up tbg to 3770' & spotted cmt plug 3000-3770' w/35 sx Cl C Neat cement. POH w/tbg. Tagged TOC @ 2900' by WL. Cut 4-1/2" OD csg @ 2875', came free, picked up 4' & csg stuck, unable to free. Cut csg @ 1000' & pulled. WIH w/tbg OE, could not get below 1000'. POH w/tbg. WIH w/8-5/8" cmt retainer on 2-3/8" tbg. Set retainer @ 780'. Cemented below retainer w/160 sxs Cl C 2% CaCl. MP 400#. Spotted 20 sx cmt on top of retainer. POH w/tbg. Spotted 10 sxs cmt plug @ surface. Installed regulation dry hole marker. P&A effective 3/15/75. Final Report. Clean & level location.

WELLBORE SCHEMATIC



South Justis Unit H #27

(ARCO Arnott Ramsay F #5)
660' FNL & 560' FEL (A)
Sec. 36, T-25S, R-37E, Lea Co., NM
KB 3060'
Spudded 12/12/59
Completed 03/18/60

12-1/4" hole.
9-5/8" casing @ 836'.
Set w/415 sxs cmt. Circ.

TOC @ 2750' by TS

Blinebry Perfs @ 5015' to 5467'

CIBP @ 5587'

CIBP @ 5600'

Otis WA Pkr @ 5700'

Tubb/Drinkard Perfs @ 5730' to 5842'

CIBP @ 5861'

Perfs @ 5891' to 5911'.

8-3/4" hole.
7" csg @ 6355'.
Set w/754 sxs cmt.

PBD @ 6317'
TD @ 6355'.

SOUTH JUSTIS UNIT "H" #27

WELL NAME: SOUTH JUSTIS UNIT "H" #27

LOCATION: 660' FNL & 560' FEL (A), SEC. 36, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: ARNOTT RAMSAY "F" #5

BLM TRACT NUMBER: 34 **API NUMBER:** 3002511902

SPUD DATE: 12/12/59

KB: 3060' GL: 3045' TD: 6355' PBTD: 6317'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"			836'	415 sxs cmt, circ
7"	23#		6355'	754 sxs cmt, (TOC @ 2750'-TS)

LOGS:

Date	Company	Log Name
1/24/60	Schlumberger	GR-N, LL

DST's:

INITIAL COMPLETION:

2-60: Perf'd Blinebry @ 5231'-35', 5273-77', 5329-33', 5354-58', 5380-84', 5409-13', 5451-55' & 5463-67' w/4-1/2" JHPF. Broke down perfs w/500 gals 15% MA. Frac'd w/32,000 gals refined oil w/3# SD & 1/4# Adomite/gal. Flwd 160 BOPD, Perf Drinkard 5891-5910', Trtd w/500 gal MA, Flwd/50 BOPD/35 BWP

INITIAL COMPLETION DATE: 3/18/60

TREATMENTS AND WORKOVERS

SOUTH JUSTIS UNIT "H" #27

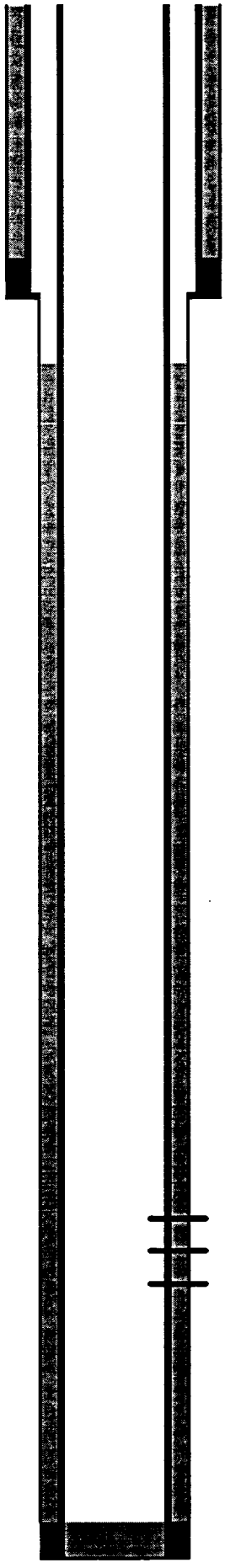
8-63 Set plug in Otis WA Pkr @ 5861'. Perf Tubb 5730-33', 5765-68', 5796-99', 5823-26', 5839-42'. Set Otis WA Pkr @ 5700', Acdz Tubb w/10,000 gal 15% NEA. Swbd & tstd.

9-65 Set Baker CIBP @ 5600', pumped 2 sx cmt on top. Set CIBP @ 5300' & cmt ret @ 5210'. Sqzd perfs 5231-77' w/225 sx cmt. D/O ret, cmt & CIBP & 5300'. Ran tods & tbg.

9-72 Perf 5015-17', 5041-43', 5098-5100', 5172-74' w/4 JHPF. Frac w/20,000 gal of gel wtr, 32,000# SD & 1350 gal of 15% NEA. Max press 3300#, ISIP 800#. Ran rods & tbg.

6-74 Unable to C/O below 5442', lost circ, RIN well to prod as Blinebry single

WELLBORE SCHEMATIC



Arnott Ramsay F #8

ARCO Oil and Gas Company
330' FNL & 330' FEL (A)
Sec. 36, T-25S, R-37E, Lea Co., NM
KB 3058'
Spudded 01/25/61
Completed 03/61

12-1/4" hole.
9-5/8" casing @ 865'.
Set w/420 sxs cmt. Circ.

TOC @ 1970' by TS

Fusselman Perfs @ 6763' to 6853'

8-3/4" hole.
5-1/2" csg @ 6889'.
Set w/1077 sxs cmt.

PBD @ 6872'
TD @ 6889'.

ARNOTT RAMSAY "F" #8

LOCATION: 330' FNL & 330' FEL (A), SEC. 36, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: ARCO OIL AND GAS COMPANY

BLM TRACT NUMBER: **API NUMBER:** 3002511906

SPUD DATE: 1/25/61

KB: 3058' GL: 3047' TD: 6889' PBTD: 6872'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"			865'	420 sxs cmt, circ
5-1/2"	14# (15.5# csg from 6814-6871')	J-55	6889'	1077 sxs cmt, (TOC @ 1970'-TS)

LOGS:

Date	Company	Log Name
2/27/61	Schlumberger	GR-N, LL

DST's:

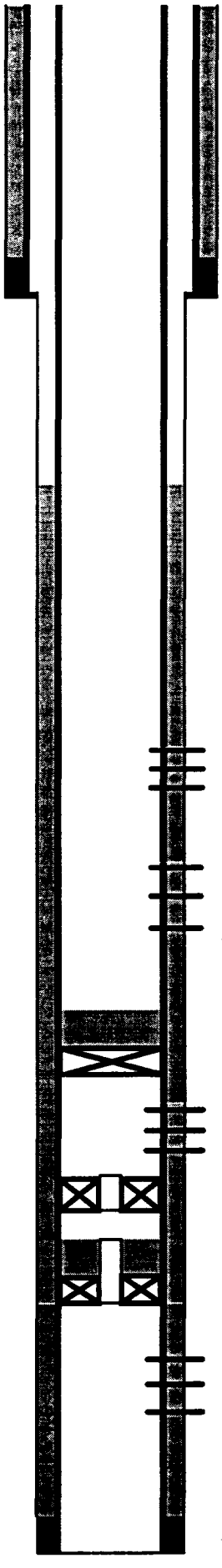
INITIAL COMPLETION: Perf'd 6763-67', 6776-80', 6788-92', 6826-30, w/4-.5" JHPF & 6845-53' w/2-.5" JHPF. Acidized w/500 gals mud acid @ 3 BPM & 1850#, IP'd Flowing @ 231 BOPD & 0 BWPD

INITIAL COMPLETION DATE: 3/61

TREATMENTS AND WORKOVERS

3-71	Equipped well to pump.	Before: Flwd 102 BOPD & 0 BWPD After: Pmpd 282 BOPD & 66 BWPD

WELLBORE SCHEMATIC



South Justis Unit G #27

(ARCO Arnott Ramsay F #9)
330' FNL & 1650' FEL (B)
Sec. 36, T-25S, R-37E, Lea Co., NM
KB 3055'
Spudded 05/03/61
Completed 07/01/61

12-1/4" hole.
9-5/8" casing @ 878'.
Set w/420 sxs cmt. Circ.

TOC @ 3000' by TS

Sqzd Blinebry Perfs @ 5003' to 5433'

Tubb/Drinkard Perfs @ 5698' to 5898'

CIBP @ 6095'

Abo Perfs @ 6176' to 6180'

Howco Cmt Retainer @ 6237'

Baker Model D Pkr @ 6827

Fusselman Perfs @ 6858' to 6887'

8-3/4" hole.
7" csg @ 6950'.
Set w/915 sxs cmt.

TD @ 6950'.

SOUTH JUSTIS UNIT "G" #27

LOCATION: 330' FNL & 1650' FEL (B), SEC. 36, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO

FORMER WELL NAME: ARNOTT RAMSAY "F" #9

BLM TRACT NUMBER: 34 **API NUMBER:** 3002511907

SPUD DATE: 5/3/61

KB: 3055' GL: 3044' TD: 6950' PBTD:

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"	36#		878'	420 sxs cmt, circ
7"	23/26#	J-55/S-95	6950'	915 sxs cmt, (TOC @ 3000'-TS)

LOGS:

Date	Company	Log Name
6/1/61	Schlumberger	GR-N, LL, MLL

DST's:

INITIAL COMPLETION: IP Blinebry flowing 71 BOPD, 0 BWPD & 25 MCFGPD
IP Fusselman flowing 141 BO, 0 BW in 26 hrs

INITIAL COMPLETION DATE: 7/1/61

TREATMENTS AND WORKOVERS

7-61 Perf'd 6858-66', 6879-87' w/2-1/2" JHPF (Fusselman).
Perf'd 5196-5200', 5246-50', 5350-54', 5377-81', & 5429-33' w/ 2-1/2" JHPF (Blinebry)

8-73 Perf'd Tubb/Drinkard zone w/2-1/2 JHPF @ 5698' 5704", 5752-58', 5852-58', 5892-98'. Perf'd additional zone in Blinebry w/4-.72" JHPF @ 5003-05', 5030-32', & 5070-72'. Acidized each set of perfs from 5698-5898' w/2000 gals 15% NE HCL. Tubb/Drinkard pmpg 41 BOPD, 39 BWPD. Treated Blinebry from 5003-5072' w/250 gals 15% HCL to break down perfs. Frac'd in 3 stages w/250 gals 15% NEA, 1500 sx gelled pad, 5000 gals gelled water w/1/2-2 ppg 20-40 sd @ 15 BPM & 3400 psi. Used BAF & rock salt as DA. IP'd @ 56 BOPD, 0 BWPD & 497 MCFGPD, flowing.

SOUTH JUSTIS UNIT "G" #27

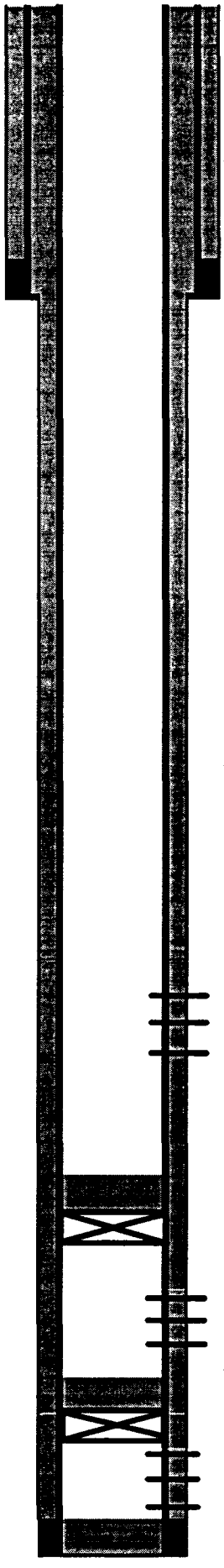
8-79 Sqzd Blinebry perfs w/350 sx CL C. Test to 310 for 3 hrs. ok. Tubed well for single in Tubb/Drinkard. Well pumping off. CI on 10-79.

12-79 Acidized Tubb/Drinkard perfs from 5698-5898 w/6000 gals 15% NEFE HCl. Well pmpd 28 BO, 29 BW & 90 MCF in 24 hrs.

2-83 Perf'd Abo from 6176-80 w/2-1/2 JHPF. Acidized w/100 gals 15% HCL. Swbd dry. Re-acidized w/1000 gals 15% NE HCl, set cmt retainer @ 6237'. Sqzd csg leak w/150 sx cmt. Abo flowed 95 MCF, Set CIBP @ 6095 & abandoned Abo.

4-83 Acidized Tubb/Drinkard perfs w/4000 gals 15% NE HCl. Pmpd 1 BOPD, 4 BWPD & 22 MCFGPD.

WELLBORE SCHEMATIC



Arnott Ramsay F #3

ARCO Oil and Gas Company
660' FNL & 1950' FEL (B)
Sec. 36, T-25S, R-37E, Lea Co., NM
KB 3060'
Spudded 03/17/57
Completed 05/06/57

11" hole.
8-5/8" casing @ 422'.
Set w/350 sxs cmt. Circ.

Glorieta Perfs @ 4634' to 4679'

CIBP @ 4730'

Glorieta Perfs @ 4746' to 4820'.

CIBP @ 4825'

8-3/4" hole.
5-1/2" csg @ 4875'.
Set w/1260 sxs cmt. Circ.

Glorieta Perfs @ 4829' to 4872'
PBD @ 4872'
TD @ 4875'.

ARNOTT RAMSAY "F" #3

LOCATION: 660' FNL & 1950' FEL (B), SEC. 36, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: ARCO OIL AND GAS COMPANY

BLM TRACT NUMBER: **API NUMBER:** 3002511900

SPUD DATE: 3/17/57

KB: 3060' GL: 3050' TD: 4875' PBTD: 4720'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"			422'	350 sxs cmt, circ
5-1/2"	14#	J-55	4875'	1260 sxs cmt, circ

LOGS:

Date	Company	Log Name
4/23/57	Welex	GR-N

DST's:

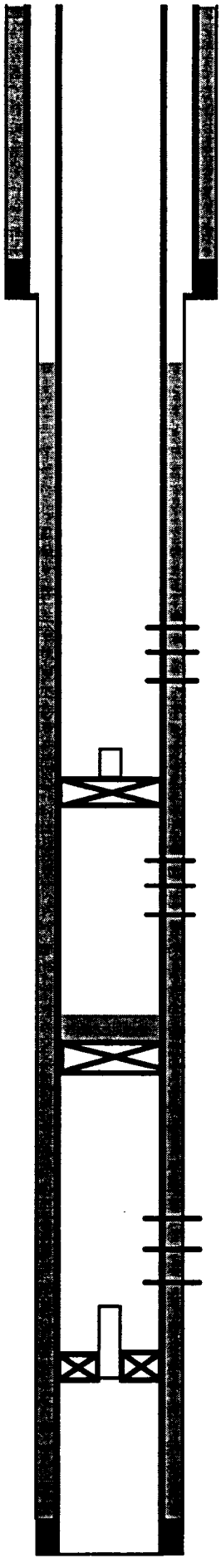
INITIAL COMPLETION: IP Glorieta (4746-4872') 336 perfs, MA-500, SOF 10,000, F 5600 MCFD, SITP 1900

INITIAL COMPLETION DATE: 5/6/57

TREATMENTS AND WORKOVERS

4-59	Set CIBP 4825 to comply w/OCD
8-77	Acidized perfs w/3000 gals, Swbd 100% wtr. Set CIBP 4730' Perf 4634-79'. A/3500 gals, IP 65 MCFD
9-81	Frac'd 4634-79' w/3000 gals 70 Q FOAM, 10,000 gal 70 Q FOAM & 70M# sd IP F 180 MCFD
2-82	Installed PU 2 BOPD, 17 BWPD, 54 MCFD

WELLBORE SCHEMATIC



South Justis Unit F #27

(ARCO Arnott Ramsay F #6)
660' FNL & 1980' FWL (C)
Sec. 36, T-25S, R-37E, Lea Co., NM
KB 3054'
Spudded 02/19/60
Completed 05/20/60

12-1/4" hole.
9-5/8" casing @ 885'.
Set w/475 sxs cmt. Circ.

TOC @ 2345' by TS

Blinebry Perfs @ 5002' to 5201'

RBP w/junk @ 5224'

Blinebry Perfs @ 5251' to 5460'

CIBP @ 5700'

Tubb/Drinkard Perfs @ 5763' to 5847'

8-3/4" hole.
7" csg @ 6290'.
Set w/878 sxs cmt.

TD @ 6290'.

SOUTH JUSTIS UNIT "F" #27

LOCATION: 660' FNL & 1980' FWL (C), SEC. 36, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: ARNOTT RAMSAY "F" #6

BLM TRACT NUMBER: 34 **API NUMBER:** 3002511903

SPUD DATE: 2/19/60

KB: 3054' GL: TD: 6290' PBTD: 5224'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"			885'	475 sxs cmt, circ
7"			6290'	878 sxs cmt, (TOC @ 2345'-TS)

LOGS:

Date	Company	Log Name
3/21/60	Schlumberger	GR-N, LL, MLL

DST's:

INITIAL COMPLETION: Tubb IP: Flowed 62 BOPD & 8 BWPD
Blinebry IP: Flowed 57 BO & 3 BW in 8 hrs flowing.

INITIAL COMPLETION DATE: 2/19/60

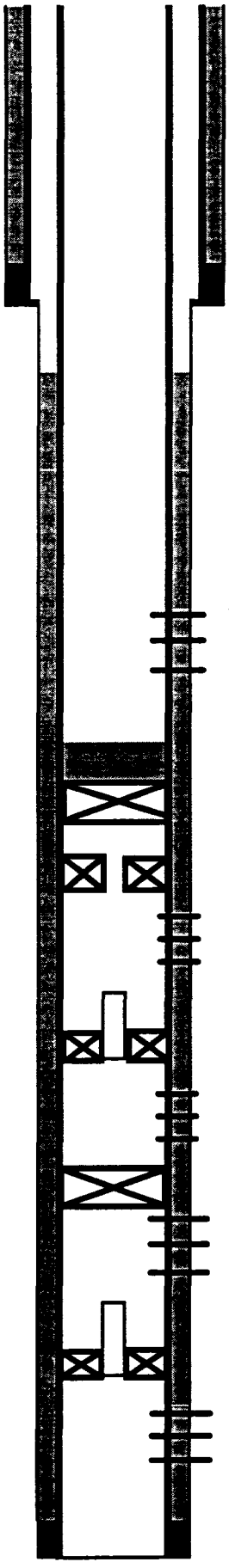
TREATMENTS AND WORKOVERS

6-68 Abandoned Tubb by setting CIBP @ 5700 w/2 sx cmt on top. Last produced in 3-67. Cum of 46 MBO

Perf'd additional Blinebry pay @ 5016-18 & 5199-5201 w/4 JHPF. Broke down perfs w/500 gals 15% NE HCL. Frac'd w/14,000 gals gelled BW w/18,000# 20-40 sand in 2 stages @ 24 BPM & 3000 psi. ISIP 700 psi. IP'd @ 133 BOPD, 140 BWPD & 1026 MCFGPD 84-29 BOPD & 130 MCFD.

9-86 Added Blinebry perfs 5002-5174'. A/4000 gals. F/68,000# XL gel & 214,500# 20/40 SD. RBP @ 5224'

WELLBORE SCHEMATIC



South Justis Unit E #27

(ARCO Arnott Ramsay F #7)
690' FNL & 925' FWL (D)
Sec. 36, T-25S, R-37E, Lea Co., NM
KB 3060'
Spudded 10/05/60
Completed 01/05/61

12-1/4" hole.
9-5/8" casing @ 869'.
Set w/425 sxs cmt. Circ.

TOC @ 1815' by TS

Blinebry Perfs @ 5034' to 5467'

PBD @ 5690'
CIBP @ 5700'

Otis WA Pkr @ 5750'

Tubb/Drinkard Perfs @ 5782' to 5800'

Baker CI Cmt Retainer @ 5810'

Tubb/Drinkard Perfs @ 5822' to 5839'
(Sqzd w/95 sxs cmt)
CIBP @ 5846'

Tubb/Drinkard Perfs @ 5850' to 5862'

Baker cmt retainer @ 5868'

Tubb/Drinkard Perfs @ 5883' to 5904'
(Sqzd w/18 sxs cmt)

8-3/4" hole.
7" csg @ 5930' w/795 sxs cmt.

TD @ 5930'.

SOUTH JUSTIS UNIT "E" #27

LOCATION: 690' FNL & 925' FWL (D), SEC. 36, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: ARNOTT RAMSAY "F" #7

BLM TRACT NUMBER: 34 **API NUMBER:** 3002511904

SPUD DATE: 10/5/60

KB: 3060' GL: TD: 5930' PBTD: 5690'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"			869'	425 sxs cmt, circ
7"	23#	J-55	5930'	795 sxs cmt, (TOC @ 1815'-TS)

LOGS:

Date	Company	Log Name
10/27/60	Schlumberger	GR-N, LL

DST's:

INITIAL COMPLETION: (12-60) Dually completed well in Blinebry (IP 55 BOPD, 55 BWPD, 73 MCF/D & Tubb/Drinkard (IP - Flowed 35 BOPD & 5 BWPD)

INITIAL COMPLETION DATE: 1/5/61

TREATMENTS AND WORKOVERS

(Additional Completion Info)

Perf'd 5782-84', 5788-5800', 5822-27', 5834-39', 5850-52', 5860-62', 5883-90' & 5897-5904' w/2 JHPF. Acidized 5883-5904' w/1000 gal 15% NE HCl (straddled perfs). Raised pkr to 5810 & acidized w/1000 gals 15% NEA @ 3 BPM & 1400#. Straddled perfs from

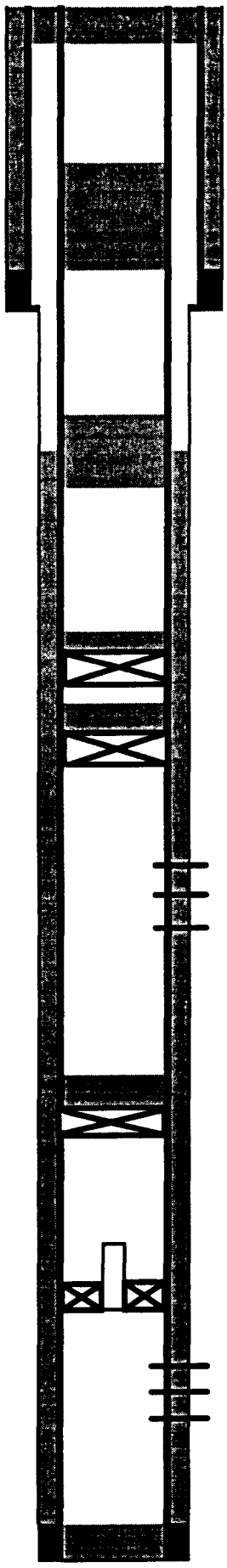
SOUTH JUSTIS UNIT "E" #27

(Cont'd)	5782-5800'. Acidized w/1000 gals 15% NEHCL @ 3 BPM & 1400#. Swabbed & flwd 36 BO & 41 BW & AR in 5 hrs. Swabbed 34 BO & 50 BW in 12 hrs from perfs below 5810'. Set Baker cmt retainer @ 5868 & pump 25 sxs neat cmt. Circ out 7 sxs. Swabbed 21 BO & 129 BW from perfs below 5810 in 16 hrs. Set Baker CIBP @ 5846' w/1 sx cmt. Swabbed 11 BO & 41 BW in 5 hrs from perfs 5782-5839'. Set Baker CI cmt retainer @ 5810'. Pumped 95 sxs cmt, set Otis WA pkr @ 5750'. Perf'd 5275-80',5292-97' w/4-1/2" JHPF. Perf'd 5405-15' & 5457-57' w/2-1/2" JHPF. Pumped 100 gals 15% NE HCL @ 3-1/2 BPM & 1600#, flushed w/30 bbls "No-Bloc". Frac'd w/16,000 gals refined oil w/3 ppg sand in 4 stages @ 26 BPM & 2800#.
4-66	P&A'd Tubb/Drinkard, set CIBP @ 5700 w/2 sx cmt
4-67	Perf'd 5034-38', 5197-99', 5210-12', w/4-.45" JHPF. Pumped .500 gals 15% HCL, Frac'd w/16,000 gals gelled water & 32,000# 20-40 SD in 2 stages. Pumped both sets of Blinebry perfs: Before - 8 BOPD, 11 BWPD, & 11 MCF/D, After - 66 BOPD, 57 BWPD, & 33 MCF/D

WELLBORE SCHEMATIC

Surface Plug(20 sxs) @ 0' to 60'.

Cmt Plug(50 sxs) @ 698' to 965'.
12-1/4" hole.
9-5/8" casing @ 839'.
Set w/300 sxs cmt. Circ.



Arnott Ramsay F #12

Chevron
1980' FNL & 990' FWL (E)
Sec. 36, T-25S, R-37E, Lea Co., NM
KB 3042'
Spudded 12/08/61
Completed 02/62
P&A'd 12/03/89

Cement Plug (50 sxs) @ 2125' to 2391'
TOC @ 2270' by TS

CIBP @ 4445' w/10 sxs cmt

CIBP @ 4990' w/10 sxs cmt

Blinebry Perfs @ 5046' to 5436'

CIBP @ 5651' w/2 sxs on top

Baker Model D Pkr @ 5779'

Tubb/Drinkard Perfs @ 5792' to 5843'

8-3/4" hole.
7" csg @ 5880'.
Set w/750 sxs cmt.

PBD @ 5922'
TD @ 5880'.

ARNOTT RAMSAY "F" #12

LOCATION: 1980' FNL & 990' FWL (E), SEC. 36, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: CHEVRON

BLM TRACT NUMBER: 34 **API NUMBER:** 3002511910

SPUD DATE: 12/8/61

KB: 3042' GL: TD: 5800' PBTD: 5641'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"			839'	300 sxs cmt, circ
7 & 7-5/8"	20/23/ 26/26.4#		5880'	750 sxs cmt (TOC @ 2270'-TS)

LOGS:

Date	Company	Log Name
1/3/62	Schlumberger	GR-N, LL

DST's:

INITIAL COMPLETION: Tubb/Drinkard, Flwd 66 BO, 0 BWPD & 56 MCF/D
Blinebry, Flwd 53 BO, 0 BW in 19 hrs
P&A'd in 1990

INITIAL COMPLETION DATE: 2/62

TREATMENTS AND WORKOVERS

2-62 Perf'd Tubb/Drinkard @ 5792-96', 5816-20', & 5839-43' w/2 JHPF. Perf Blinebry 5229-33', 5254-58', 5274-78, 5337-41', 5381-85', & 5432-36' w/2 JHPF. Set Baker Model "D" pkr w/expendable plug @ 5799'. Pumped 500 gals mud acid into Blinebry. Frac'd Blinebry w/24,000 gals refined oil in 6 stages. Each stage 250 gals mud acid, 1000 gal refined oil w/1/40# APG, 3000 gal ref oil w/1/40# APG & 0.15# (12-20 mesh) Walnut H per gal @ 14 BPM & 1400 psi.

3-66 Set CIBP @ 5651' to P&A Tubb/Drinkard. Tubed well for single completion in Blinebry

5-67 Perf'd 5046-50' w/4-.45" JHPF. Pumped 250 gals 15% NE HCl. Started frac w/8000 gals gelled brine & 16,000# 20-40 SD. Screened out w/1848 gals & 3696 sd in formation. Air - 19.2 BPM, AP - 3100#. Pulled RBP (prev set @ 5100') & pump both Blinebry intervals together. IP @ 68 BOPD, 44 BWPD & 178 MCFGPD

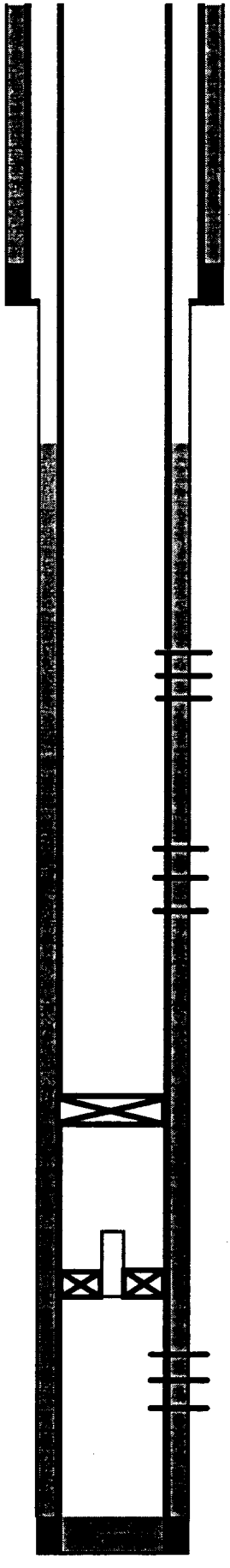
ARNOTT RAMSAY "F" #12

3-85 Acidized perfs from 5046-5436' w/5000 gals 15% NEFE HCl, dropping 4-7/8" balls/5 bbls @ 6 BPM & 2000 psi. Perf'd 5082-86', 5126-30', & 5166-70' w/4-1/2" JHPF. Acidized perfs from 5082-5170' w/500 gals 15% NEFE HCL @ 1/2 BPM & 700 psi, swabbed dry, re-acidized perfs from 5082-5170' w/5000 gals 15% NEFE HCl, dropped 4-7/8" balls/5 bbls @ 6 BPM & 2200 PSI. ISIP - 700#. Frac'd perfs from 5046-5170' in 4 equal stages of 3000 gals 40# gelled pad, 2000 gal 40# gelled w/1ppg SD, 3000 gals w/2 ppg sd, 4000 gal w/3 ppg sd, dropped 3 stages 7/8 Balls & BAF. AIR & P-13 1/2 BPM & 3000#, Flwd 91 BO, 369 BW & 520 MCFG in 24 hrs.

5-85 Installed pumping equipment pmpg @ 80 BOPD, 214 BWPD & 248 MCFGPD.

TOH w/rods & tbg, RU WL & set CIBP @ 4990' & cap w/10 sxs cmt, TOH to 4950' load csg w/115 bbls P&A mud & lost returns. TIH w/pkr to isolate csg leak, CIBP @ 4990'. Leaking set CIBP @ 4445' & cap w/10 sxs cmt, TOC @ 4392', spot 50 sxs Plug F 2391'-2124'. TOH spot 50 sxs Plug F 965-698', TOH spot 2 sxs surface Plug F 60' to surface, cutoff WH 3' below GL, install dry hole marker, change well status to Plugged & Abandoned 12/3/89.

WELLBORE SCHEMATIC



South Justis Unit F #28

(ARCO Arnott Ramsay F #11)
1980' FNL & 1980' FWL (F)
Sec. 36, T-25S, R-37E, Lea Co., NM
KB 3045'
Spudded 10/19/61
Completed 11/61

12-1/4" hole.
9-5/8" casing @ 838'.
Set w/300 sxs cmt. Circ.

TOC @ 2175' by TS

Blinebry Perfs @ 4998' to 5065'

Blinebry Perfs @ 5200' to 5453'

CIBP @ 5530'

Baker Model D Pkr @ 5760'

Tubb/Drinkard Perfs @ 5784' to 5850'

8-3/4" hole.
7" csg @ 5930'.
Set w/778 sxs cmt.

PBD @ 5922'
TD @ 5930'.

SOUTH JUSTIS UNIT "F" #28

LOCATION: 1980' FNL & 1980' FWL (F), SEC. 36, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: ARNOTT RAMSAY "F" #11

BLM TRACT NUMBER: 34 **API NUMBER:** 3002511909

SPUD DATE: 10/19/61

KB: 3045' GL: 3033' TD: 5930' PBTD: 5530'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"			838'	300 sxs cmt, circ
7"	23#		5930'	778 sxs cmt, (TOC @ 2175'-TS)

LOGS:

Date	Company	Log Name
11/18/61	PGAC	GR-N, LL

DST's:

INITIAL COMPLETION:

IP's: Blinebry - Flwd 146 BO, 11 BW & 158 MCF in 22 hrs
IP's: Tubb/Drinkard - Flwd 95 BO, 2 BW & 226 MCF in 24 hrs

INITIAL COMPLETION DATE: 11/61

TREATMENTS AND WORKOVERS

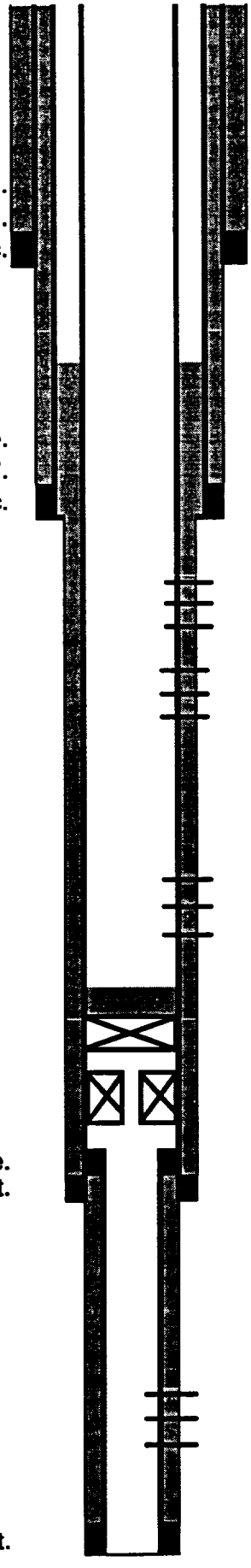
(Additional Completion Info):

Perf'd Tubb/Drinkard @ 5784-88', 5830-34', 5846-50' w/2-1/2" JHPF. Perf'd Blinebry @ 5451-53' & 5431-33' w/4-7/8 JHPF & 52000-04', 5236-40', 5259-63' & 5344-48' w/2-7/8 JHPF. Set Baker Model "D" pkr @ 5760', Spotted 500 gals MA across Blinebry perfs & frac'd w/24,000 gals refined oil in 6 stages. Each stage: 1000 gals ref oil w/1/40# APG, 3000 gal ref oil w/1/40# APG & .15# (12-20) Walnut shells & 250 gal MA between stages, 3500# breakdown, 158 BPM & 2900# AIR&P. Acidized Tubb/Drinkard w/1000 gals MA @ 4 BPM & 2500# Re-acidized w/3000 gals 15% NE HCL @ 1.1 BPM & 850 psi AIR&P. Tubed well for Dual production.

SOUTH JUSTIS UNIT "F" #28

3-65	Installed pumping equipment for Blinebry
7-70	POH w/Blinebry rods & tbg. POH w/Tubb-Drinkard tbg, leaving SA & 180' tbg in Model "D" pkr (corroded tbg). DHC Blinebry & Tubb/Drinkard. Pumped 30 BOPD & 6 BWPD, 90% allocated to Blinebry.
4-82	Acidized for scale removal. Pumped 1000 gals 15% NEFE HCl. Flushed to perfs w/230 bbls GKF. Prod rates: Before - 7 BOPD & 1 BWPD, After - 7 BOPD & 18 BWPD.
7-84	Repaired water flow to surface. Perf'd 4 sqz holes @ 915'. Est circ down 7" & up 7-9 5/8" annulus. Pumped 180 sx cmt. Cmt returns to surface. Sqzd 35 sx cmt into csg leak @ ±270'. Tested sqzd perfs & csg leak to 500 psi, ok.
6-86	Set CIBP @ 5530'. Perf U/Blinebry 4998', 4990', 5007', 5009', 5014', 5016', 5021', 5023', 5051', 5055', 5063', 5065', w/1 JHPF. Set RBP @ 5481', set pkr @ 5145'. Acdz existing perfs w/1500 gals 15% NEFE. Swbd well. POH & set RBP @ 5148', set pkr @ 4903'. Acdz upper perfs w/2000 gals 15% NEFE. Swbd well. Reset pkr @ 4877' (pmp BV pkr before frac). Frac U/perfs w/33,200 gals 40# X-link gel, 97,400# sd (1/2 to 12 ppg) Max press 2600#, AIR 14 BPM, ISIP 750# Flow back well. Circ SD from 5085-5148'. Ran rods & tbg, pmp well.
7-3-86	Pmp 50 BO/80 BW/146 MCFPD
11-86	POH w/RBP

WELLBORE SCHEMATIC



South Justis Unit G #28

(ARCO Arnott Ramsay F #4)
1980' FNL & 1980' FEL (G)
Sec. 36, T-25S, R-37E, Lea Co., NM
KB-3046'
Spudded 12/27/58
Completed 07/10/59

17-1/2" Hole.
13-3/8" casing @ 317'.
Set w/350 sxs cmt. Circ.

TOC @ 1630' by TS

12-1/4" Hole.
9-5/8" casing @ 2400'.
Set w/1000 sxs cmt. Circ.

Langlie Mattix Perfs @ 3244' to 3263'

Grayburg Perfs @ 3396' to 3510'

Blinebry Perfs @ 5365' to 5499'

7" Johnson Wasp BP @ 5515'

Baker Model D Pkr @ 5520'

8-3/4" hole.
7" csg @ 5599' w/520 sxs cmt.

Top of 5-1/2" Liner @ 5584'

Tubb/Drinkard Perfs @ 5862' to 5890'

5-1/2" Liner @ 5916' w/65 sxs cmt.

TD @ 5916'.

SOUTH JUSTIS UNIT "G" #28

LOCATION: 1980' FNL & 1980' FEL (G), SEC. 36, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: ARNOTT RAMSAY "F" #4

BLM TRACT NUMBER: 34 **API NUMBER:** 3002511901

SPUD DATE: 12/27/58

KB: 3046' GL: 3034' TD: 5916' PBTD: 5506'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			317'	350 sxs cmt, circ
9-5/8"			2400'	1000 sxs cmt, (TOC @ 1630'-TS)
7"	20/23#	J-55/N-80	5599'	520 sxs cmt
5-1/2" Lnr	15.35#		5584-5916'	

LOGS:

Date	Company	Log Name
1/28/59	Schlumberger	GR-N, LL, MLL

DST's:

INITIAL COMPLETION:

2-59: Perf'd 3396-3400', 3424-28', & 3506-10' w/4-1/2" JHPF. Broke down w/500 gals MA. Sqzd 3434-3510 w/462 sx. Pmpg 9 BOPD & 88 BWPD from 3396-3400', sqzd 3396-34' w 266 sx. Set CIBP @ 5583'. Perf'd 5499-97', 5474-72', 5431-5425-22', 5420-18' & 5367-65' w/4-1/2 JHPF. Broke down w/500 gals 15% NE HCL. Frac'd w/30 000 gals 24° Oil & 0 PPG 20-40 mesh & 0.3 PPG 12-20 mesh walnut hulls. Flowed 77 BOPD & 8 BWPD.

INITIAL COMPLETION DATE: 7/10/59

TREATMENTS AND WORKOVERS

5-59 Perf'd 3244-46', 3254-56', 3261-63' w/2-1/2" JHPF. Broke down w/500 gals MA. Frac'd w/15,000 gals lease oil w/2 ppg sd. No production. Sqzd 3244-63' w/169 sx. Completed well as single producer from Blinebry pay @ 5365-5499'. Flowed 108 BOPD.

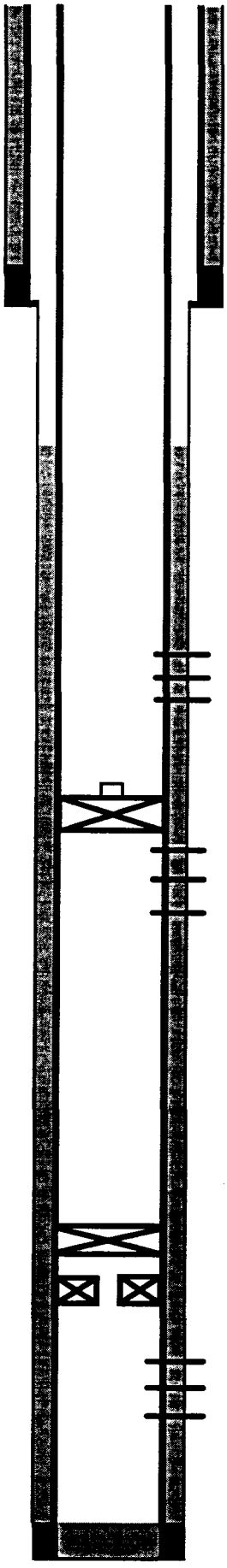
SOUTH JUSTIS UNIT "G" #28

7-60 Deepened well to 5916. Ran 5-12", 15, 35# liner to 5916', cmt w/65 sx. Perf'd liner @ 5862-70', 5874-82', & 5886-90' w/2-1/2" JHPF, acidized perfs w/2500 gals 15% mud acid. Completed well as dual producer w/Baker Model "D" pkr @ 5520'. Blinebry flowed 90 BOPD, 10 BWPD, & 73 MCFGPD. Drinkard flowed 127 BOPD, 14 BWPD & 270 MCFGPD.

4-69 P&A Tubb/Drinkard & frac Blinebry. Set 7" Johnson Wasp BP @ 5515' w/2 sx cmt. Perf'd 5202-04' w/4.45" JHPF. Frac'd w/12,000 gals gel w/1-1/2 ppg 20-40 sd down csg @ 40 BPM & 1400 psi. Ran temp log. Pumped 3000# RS, 1500 gals BW, 500 gal 15% NEA, 1000 gal gelled pad & 6000 gals gel w/1-1/2 20-40 SD, to treat upper perfs. Tagged fill @ 5442, pumped 1000 gals gelled pad, 6000 gals gel w/1-1/2 ppg. Pmpg 130 BOPD, 29 BWPD & 429 MCFGPD

3-91 Fill to 5475'

WELLBORE SCHEMATIC



South Justis Unit H #28

(ARCO Arnott Ramsay F #10)
1650' FNL & 660' FEL (H)
Sec. 36, T-25S, R-37E, Lea Co., NM
KB 3049'
Spudded 06/07/61
Completed 08/09/61

12-1/4" hole.
9-5/8" casing @ 852'.
Set w/420 sxs cmt. Circ.

TOC @ 2050' by TS

Blinebry Perfs @ 5001' to 5261'

RBP @ 5290'

Blinebry Perfs @ 5309' to 5446'

CIBP @ 6830'
Baker Model D Pkr @ 6832'

Fusselman Perfs @ 6879' to 6923'

8-3/4" hole.
7" csg @ 6950'.
Set w/620 sxs cmt.

PBD @ 6930'
TD @ 6950'.

SOUTH JUSTIS UNIT "H" #28

LOCATION: 1650' FNL & 660' FEL (H), SEC. 36, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: ARNOTT RAMSAY "F" #10

BLM TRACT NUMBER: 34 **API NUMBER:** 3002511908

SPUD DATE: 6/7/61

KB: 3049' GL: 3038' TD: 6950' PBTD: 5290'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"			852'	420 sxs cmt, circ
7"	20/23#		6950'	620 sxs cmt, (TOC @ 2050'-TS)

LOGS:

Date	Company	Log Name
7/1/61	Schlumberger	GR-N, LL, MLL

DST's:

INITIAL COMPLETION: Fusselman: Perf'd 6879-91' w/2 JHPF & 6917-23' w/4 JHPF. IP'd Flowing 88 BOPD & 0 BWPD. Acidized w/1000' gals mud acid & flushed w/29 BO @ 4 BPM & 2700 psi. Flowed 86 BO & 0 BW in 6 hrs. 24 hr rate of 344 BOPD.

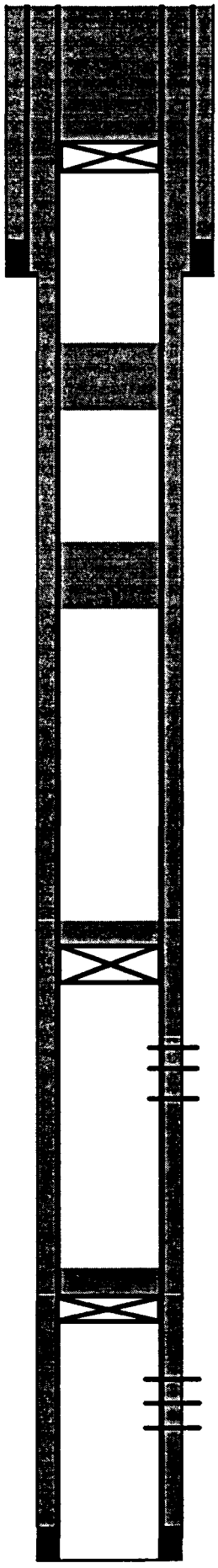
Blinebry: Perf'd 5309-13', 5338-42', 5364-68', 5391-95' & 5442-46' w/2 JHPF. Acidized w/1000 gals mud acid & flushed w/50 BO. Frac'd w/20,000 gals oil w/3# 20-40 sand in 5 stages @ 25 BPM & 2650 psi. Flwd 88 BOPD, 1 BWPD & 82 MCFGPD.

INITIAL COMPLETION DATE: 8/9/61

TREATMENTS AND WORKOVERS

2-86 Added U/Blinebry perfs @ 5001', 16', 26', 94', 5142', 50', 68', 5219', 35', 44' & 61' w/1 JHPF. Acidized w/4000 gals 15% NEFE HCl @ 6.6 BPM & 2000 psi. Frac'd w/47,000 40# X-linked gel & 160,000# 20-40 sand @ 20 BPM & 3000 psi. PPG 27 BOPD, 28 BWPD & 350 MCFGPD. B4-6 BOPD, 6 BWPD & 23 MCFGPD.

WELLBORE SCHEMATIC



Arnott Ramsay F #13

Chevron
2310' FNL & 330' FEL (H)
Sec. 36, T-25S, R-37E, Lea Co., NM
KB 3046'
Spudded 06/24/75
Completed 09/25/75
P&A'd 03/25/90

CIBP @ 750' w/cmt to surface.

12-1/4" hole.
9-5/8" casing @ 850'.
Set w/400 sxs cmt. Circ.

Cement Plug (40 sxs) @ 1995' to 2195'

Cement Plug (40 sxs) @ 3298' to 3492'

TOC @ 4700' by TS

CIBP @ 5625' w/35' cmt

Tubb/Drinkard Perfs @ 5676' to 5888'

CIBP @ 6900' w/25 sxs cmt

Fusselman Perfs @ 6962' to 6972'

8-3/4" hole.
7" csg @ 6996'.
Set w/760 sxs cmt.

TD @ 6996'.

ARNOTT RAMSAY "F" #13

LOCATION: 2310' FNL & 330' FEL (H), SEC. 36, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: CHEVRON

BLM TRACT NUMBER: **API NUMBER:** 3002525051

SPUD DATE: 6/24/75

KB: 3046' GL: 3034' TD: 6996' PBTD: 6890'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"			850'	400 sxs cmt, circ
7"	23/20#	N-80/K-55	6996'	760 sxs cmt, (TOC @ 4700'-TS)

LOGS:

Date	Company	Log Name
7/29/75	Schlumberger	FDC, DLL

DST's:

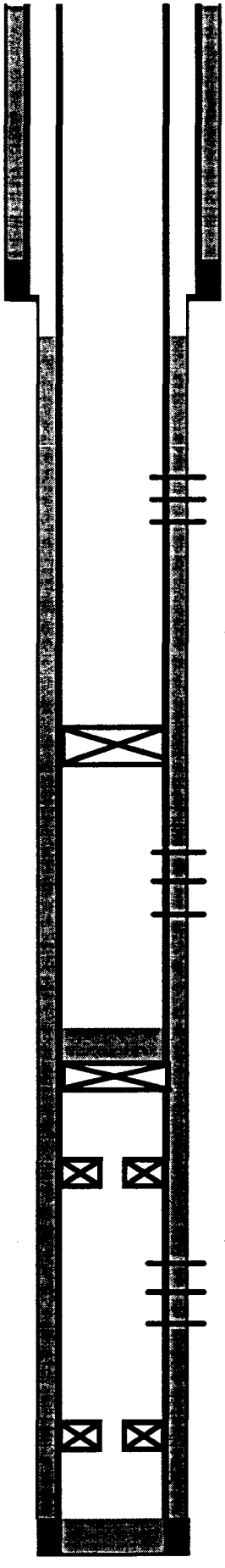
INITIAL COMPLETION: P&A

INITIAL COMPLETION DATE: 9/25/75

TREATMENTS AND WORKOVERS

8-75 Perf 7" csg @ 3520 w/4-1/2" JHPF (TSITOC). Sqzd w/450 sx cmt TSITOC @ 2000', perf'd Fusselman @ 6962-72' w/2-1/2" JHPF. Acidized perfs w/1000 gals 15% NE HCl @ 3-1/2 BPM & 3000 psi. Swbd dry, reacidized w/2000 gals 15% NE HCl @ 5 BPM & 2500 psi. Pmpg 100% wtr set CIBP @ 6900'. Perf'd Tubb/Drinkard @ 5676-78', 5742-44', 5796-98', 5810-12', 5863-65', & 5886-88' w/4-1/2" JHPF. Acidized perfs w/1600 gals 15% NE HCl w/100# BAF every 400 gals @ 1-1/2 BPM & 600 psi. Frac'd perf from 5676-6888' in 6 equal stages (1) 2000 gals gelled, 5000 gals gelled BW w/1-2 ppg sd, 300# RS & 75# BAF. Repeat pumping 5th stage & tbg parted. AIR & P-16 BPM & 2550 psi. IP'd pumping 63 BOPD & 177 BWPD(10-75) - P&A'd 1990

WELLBORE SCHEMATIC



South Justis Unit H #29

(ARCO Vinson Ramsay B #8)
2100' FSL & 660' FEL (I)
Sec. 36, T-25S, R-37E, Lea Co., NM
KB 3042'
Spudded 07/13/60
Completed 09/60

12-1/4" hole.
9-5/8" casing @ 875'.
Set w/425 sxs cmt. Circ.

TOC @ 960' by TS

Upper Blinebry Perfs @ 5013' to 5102'

Baker RBP @ 5135'

Blinebry Perfs @ 5156' to 5442'

CIBP @ 5550'

Baker Model D Pkr @ 5625'

Tubb/Drinkard Perfs @ 5724' to 5858'

Baker Model D Pkr Pushed to 6018'

8-3/4" hole.
7" csg @ 6290'.
Set w/827 sxs cmt.

PBD 6278'
TD @ 6290'.

SOUTH JUSTIS UNIT "H" #29

LOCATION: 2100' FSL & 660' FEL (I), SEC. 36, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: VINSON RAMSAY "B" #8

BLM TRACT NUMBER: 35 **API NUMBER:** 3002511917

SPUD DATE: 7/13/60

KB: 3042' GL: 3031' TD: 6290' PBTD: 5135'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"	32.4#		875'	425 sxs cmt, circ
7&7-5/8"	23/29.7#		6290'	827 sxs cmt, (TOC @ 960'-TS)

LOGS:

Date	Company	Log Name
8/4/60	Schlumberger	GR-N, LL, MLL

DST's:

INITIAL COMPLETION: Blinebry IP'd @ 90 BOPD, 16 BWPD & 106 MCFGPD, Flowing Tubb IP'd Flowing 17 BO, 0 BW in 3 hrs, 24 hr rate 126 BOPD, 0 BWPD & 144 MCFGPD. Tubed well for dual completion

INITIAL COMPLETION DATE: 9/60

TREATMENTS AND WORKOVERS

Perf'd Tubb @ 5724-32' w/JHPF, 5737-41', 5761-65', 5771-75', 5781-85', 5819-23' w/4 JHPF. 5829-37' & 5842-58' w/2 JHPF.

Perf'd Blinebry @ 5156-60, 5174-78 w/4 JHPF 5187-95', 5242-50, w/2 JHPF, 5344-48', 5378-82', 5402-06', 5422-26', 5431-35' & 5438-42' w/4 JHPF. Set Baker Model "D" pkr w/expd plug @ 5650'. Broke down Blinebry perfs w/500 gal MCA. Frac'd Blinebry in 10 stages w/20,000 gals lease oil w/3 ppg sd @ 30 BPM. CP 2000#, Blinebry IP'd @ 90 BOPD, 16 BWPD & 106 MCFGPD Flowing.

SOUTH JUSTIS UNIT "H" #29

Tubb IP'd flowing 17 BO, 0 BW in 3 hrs, 24 hr rate 126 BOPD, 0 BWPD & 144 MCFGPD. Tubed well for dual completion.

10-60 Acidized Tubb w/2000 gals 15% NE HCl @ 1-1/2 BPM & 1250 psi. Prod rates: Before - 2 BOPD, 0 BWPD, GVTSTM; After - 51 BOPD, 1 BWPD & 90 MCFGPD.

11-67 Put Tubb & Blinebry on pump. Blinebry pumping 35 BOPD & 6 BWPD. Tubb pumping 14 BOPD & 0 BWPD.

5-64 Repair tbg leak in long string. POH w/parted tubing (long string). Fished long string & SA. Left Model "D" in hole @ 5653'. Set Baker Model "D" @ 5634', returned to prod Blinebry pumping 40 BOPD, 24 BWPD & Tubb pumping 16 BOPD & 0 BWPD.

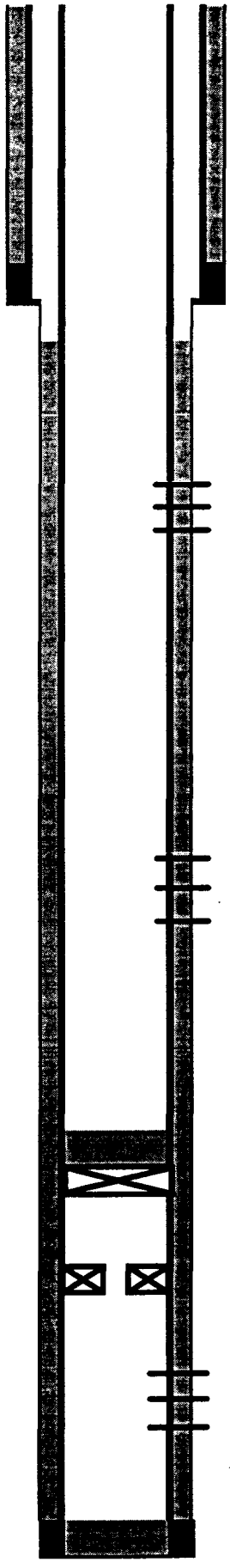
5-72 Repaired communication. Milled over and recovered Baker Model "D" pkr @ 5634' cut over abandoned pkr @ 5653' & pushed down hole to 6018'. Set new Baker Model "D" pkr @ 5625'. Acidized Tubb w/7200 gal 15% NEA. Tubb prod rates: Before - 6 BOPD & 0 BWPD; After - 27 BOPD & 115 BWPD.

5-78 Prod from Blinebry & Tubb declined to 14 BOPD, 0 BWPD, 64 MCFGPD & 14 BOPD, 6 BWPD, 38 MCFGPD, respectively. Pulled parallel strings & tubed for single completion. DHC Tubb & Blinebry. Assign 50% oil to each zone & 63% gas to Blinebry.

5-86 Set CIBP @ 5550' & capped w/35' cmt perf 5013', 5024', 5059', 5070', 5102' w/1 JHPF. Set RBP @ 5475', set pkr @ 5131'. Acdz exist perfs w/1500 gal NEFE. Swb. POH, set RBP @ 5135', set pkr @ 4953'. Acdz new perfs w/2000 gal 15% NEFE. Frac w/41,300 gal 40# X-link gel w/1-2 to 11 ppg SD. Flowed back SD. Run rods & tag.

6-2-86 Pumped 30 BO/54 BW/78 MCFPD.

WELLBORE SCHEMATIC



South Justis Unit G #29

(ARCO Vinson Ramsay B #7)
1980' FSL & 1980' FEL (J)
Sec. 36, T-25S, R-37E, Lea Co., NM
KB 3037'
Spudded 05/10/60
Completed 07/60

12-1/4" hole.
9-5/8" casing @ 856'.
Set w/425 sxs cmt. Circ.

TOC @ 2025' by TS

Upper Blinebry Perfs @ 5017' to 5150'

Blinebry Perfs @ 5214' to 5468'

CIBP @ 5700'

Otis WA Pkr @ 5750'

Tubb/Drinkard Perfs @ 5777' to 5857'

8-3/4" hole.
7" csg @ 6280'.
Set w/700 sxs cmt.

PBD 6265'
TD @ 5830'.

SOUTH JUSTIS UNIT "G" #29

LOCATION: 1980' FSL & 1980' FEL (J), SEC. 36, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: VINSON RAMSAY "B" #7

BLM TRACT NUMBER: 35 **API NUMBER:** 3002511916

SPUD DATE: 5/10/60

KB: 3060' GL: 3045' TD: 6355' PBTD: 6317'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"			856'	425 sxs cmt, circ
7"	23#	J-55/N-80	6280'	700 sxs cmt, (TOC @ 2025'-TS)
3 jts 7-5/8"	26.4#	J-55		

LOGS:

Date	Company	Log Name
6/12/60	PGAC	GR-N

DST's:

INITIAL COMPLETION: Flwd 58 BO & 0 BW

INITIAL COMPLETION DATE: 7/60

TREATMENTS AND WORKOVERS

Perf'd Tubb @ 5777-95', 5828-37', & 5848-57' w/2-1/2 JHPF. Acidized perfs w/2000 gal 15% NE HCl @ 3.5 BPM & 1700#. Flowed 58 BO & 0 BW in 6 hrs. Perf'd Blinebry @ 5214-18', 5246-50', 5287-91', 5365-69' w/4-1/2" JHPF, 5403-11' w/2-1/2 JHPF, 5450-58 w/1-1/2" JHPF & 5464-68' w/2-1/2 JHPF. Set Otis WA Perm pkr @ 5750'. Broke down perfs w/500 gals 15% NE HCl. Frac'd w/4000 gal refined oil w/3 ppg SD @ 16 BPM. Mech problems cut frac short SO Re-frac'd w/4000 gal refined oil w/3 ppg SD & 1/4# Adomite aqua/gal @ 32 BPM. Dropped 20 balls & pumped 4000 gals refined oil w/3 ppg SD @ 28 BPM. Dropped 20 balls & pumped 4000 gals refined oil w/3 ppg SD @ 24 BPM. Flowed 62 BO & 0 BW in 2-3/4 hrs. Tubed well for dual completion

SOUTH JUSTIS UNIT "G" #29

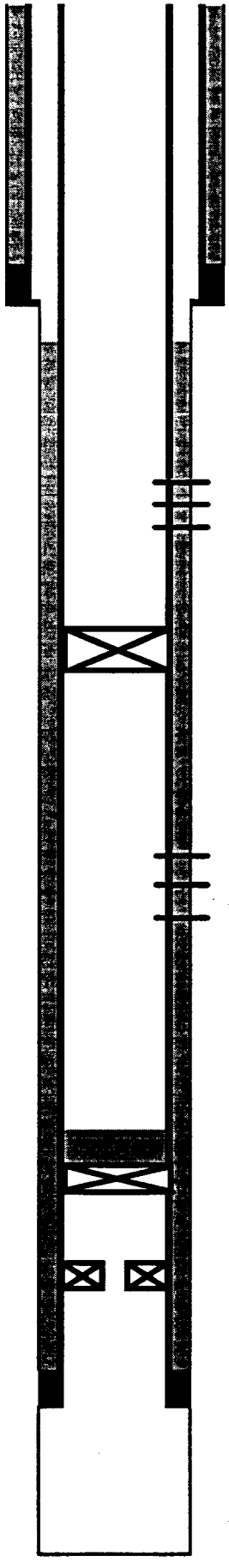
7-78 POH w/Parallel string anchor & seal assembly. Ran single completion string, downhole commingle Blinebry & Tubb/Drinkard. Provision: total oil production ≤ 30 BOPD; total water production ≤ 60 BPD.

5-81 Pumped 1000 gals 15% NEFE HCl down csg, flushed w/190 bbls 8.6# cut BW. All on vac: Before - 5 BOPD & 13 BWPD, AFTER - 27 BOPD & 54 BWPD

3-86 Set CIBP @ 5700', dumped 35' cmt. Perf 5017', 5031', 5043', 5061', 5113', 5136', 5150', w/1 JHPF. Set RBP @ 5498', set pkr @ 5200'. Acidize lower perfs w/1500 gal 15% NEFE. POH & set RBP @ 5200', set pkr @ 4933'. Acidize upper perfs w/2000 gal 15% NEFE drop 12 RCNB's. Swb well, RIH w/rods & tbg & test pmp. Set RBP @ 5191', set pkr @ 4922'. Frac well w/52,500 gal 40# X-link gel & 188,000# 20/40 SD (1/2 to 12 ppg sd). Bail SD 5120-5191'. Swb well. Bail SD 5109-5191'. POH w/RBP. Run rods & tbg.

4-20-86 23 BO/103 BW/120 MCFPD

WELLBORE SCHEMATIC



South Justis Unit F #29

(ARCO Vinson Ramsay B #6)
1980' FSL & 1980' FWL (K)
Sec. 36, T-25S, R-37E, Lea Co., NM
KB 3038'
Spudded 08/08/58
Completed 09/58

11" hole.
8-5/8" casing @ 431'.
Set w/350 sxs cmt. Circ.

TOC @ 2055' by TS

Blinebry Perfs @ 5044' to 5330'

CIBP @ 5345'

Blinebry Perfs @ 5359' to 5493'

CIBP @ 5600'

Baker Model D Pkr @ 5680'

8-3/4" hole.
5-1/2" csg @ 5797'.
Set w/1950 sxs cmt.

Tubb Open Hole Completion

TD @ 5830'.

SOUTH JUSTIS UNIT "F" #29

LOCATION: 1980' FSL & 1980' FWL (K), SEC. 36, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: VINSON RAMSAY "B" #6

BLM TRACT NUMBER: 35 **API NUMBER:** 3002511915

SPUD DATE: 8/8/58

KB: 3038' GL: 3027' TD: 5830' PBTD: 5345'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"	24#	J-55	431'	350 sxs cmt, circ
5-1/2""	14#	J-55	5797'	1950 sxs cmt, (TOC @ 2055'-TS)

LOGS:

Date	Company	Log Name
9/22/58	Schlumberger	Sonic, LL

CORE: 5230-80'

INITIAL COMPLETION: Perf'd Blinebry @ 5359', 5378', 5389', 5397', 5402', 5430', 5449', 5461', 5469', 5476', 5485', & 5493' w/6 JHPF. Broke down w/500 gals mud acid. Frac'd w/50,000 gals lease oil & 1 PPG SD @ 12 BPM & 4200# in 12 stages. Flwd 274 BOPD, 102 BWPD, & 221 MCFGPD. Core 5230-80'

INITIAL COMPLETION DATE: 9/58

TREATMENTS AND WORKOVERS

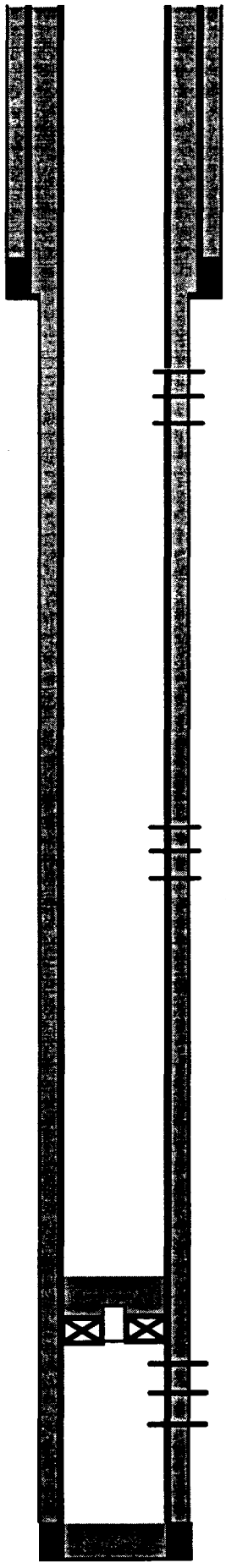
9-60 Deepened well to 5830' to test Tubb. Acidized open hole w/2000 gals 15% NE HCl. Set Baker Model "D" pkr @ 5680'. Tubed well for dual in Tubb & Blinebry. Tubb IP'd flowing 58 BO, 50 BW, 127 MCFG in 23 hrs. Blinebry flowing 50 BOPD, 5 BWPD & 38 MCFGPD.

1-64 Acidized Tubb from 5797-5830 w/5000 gals 15% NE HCl @ 2-1/2 BPM & 1300 psi. Flowed 40 BOPD & 19 BWPD, prior - 0 BOPD, 0 BWPD.

SOUTH JUSTIS UNIT "F" #29

4-65	Abandoned Tubb, set CIBP @ 5600 & capped w/2 sx cmt. TOC @ 5584'. Produced well as single in Blinebry. Pmpg 50 BOPD, 39 BWPD & 79 MCFGPD.
5-81	Acidize Blinebry from 5359-5493' w/1000 gals 15% NEFE HCl on vac. Well pmpg 3 BOPD & 11 BWPD. Before - 2 BOPD & 4 BWPD.
3-86	Set CIBP @ 5345'. Perf 5044', 5060', 5073', 5087', 5104', 5133', 5167', 5210', 5267', 5286', 5245', 5311'. Set pkr @ 5004', acidize w/4000 gals 15% NEFE. Drop 1-7/8" 1.3 SG RCNB per 5 bbl. Swab well. Frac w/46.450 gal X-link gel & 160.150# 20-40 SD (1/2 to 13 ppg). Swbd & flwd well. Bailed SD. Run rods & tbg. 3-27-86 pump 40 BO/59 BW/130 MCFPD

WELLBORE SCHEMATIC



South Justis Unit E #29

(ARCO Vinson Ramsay B #12)
2310' FSL & 990' FWL (L)
Sec. 36, T-25S, R-37E, Lea Co., NM
KB 3037'
Spudded 09/06/62
Completed 10/62

12-1/4" hole.
9-5/8" casing @ 925'.
Set w/600 sxs cmt. Circ.

4 Perfs @ 1175' (Sqzd w/200 sxs cmt. Circ.)

TOC @ 2215' by TS

Blinebry Perfs @ 5050' to 5433'

Baker Model D Pkr @ 5722' w/DR Plug

Sqzd Tubb/Drinkard Perfs @ 5751' to 5810'

8-3/4" hole.
7" csg @ 5900'.
Set w/550 sxs cmt.

PBD 5870'
TD @ 5900'.

SOUTH JUSTIS UNIT "E" #29

LOCATION: 2310' FSL & 990' FWL (L), SEC. 36, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: VINSON RAMSAY "B" #12

BLM TRACT NUMBER: 35 **API NUMBER:** 3002511921

SPUD DATE: 9/6/62

KB: 3037' GL: 3027' TD: 5900' PBTD: 5870'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"	32.30/36#		925'	600 sxs cmt, circ
7"	23#		5900'	550 sxs cmt, (TOC @ 2215'-TS)

LOGS:

Date	Company	Log Name
9/25/62	Schlumberger	LL, MLL

DST's:

INITIAL COMPLETION: Blinebry IP'd @ 149 BO, 0 BW, 81 MCF in 6 hrs Flowing
Tubb/Drinkard IP'd @ 48 BOPD, 74 BWPD & 13 MCFGPD, Pumping

INITIAL COMPLETION DATE: 10/62

TREATMENTS AND WORKOVERS

(Additional Completion Info)

Perf'd Tubb/Drinkard @ 5751-55', 5780-84', & 5806-10' w/4 JHPF. Perf'd Blinebry @ 5266-70', 5280-84', & 5308-12' w/4 JHPF. Set Baker Model D pkr @ 5720'. Broke down Blinebry perfs w/1000 gals 15% HCL. Frac'd in 3 equal stages of 1000 gals Glo w/1/20# APG & 3000 gals Glo w/1/20# APG & 2 PPG 20-40 SD followed by 18 RCNBS. Air & P - 19.6 BPM & 1750 psi. Broke down Tubb/Drinkard w/1000 gals 15% NEA. Swabbed 50 BO & 150 BW in 10 hrs. Attempted to shut off water in Tubb/Drinkard, DO Bkr Model D pkr & set cmt retainer @ 5767'. Sqzd perfs from 5780-5810 w/50 sx cmt. Swabbed 33 BO & 38 BW in 9 hrs from 5751-55'. Set Bkr Model D pkr @ 5722'. Tubed up as dual producer.

SOUTH JUSTIS UNIT "E" #29

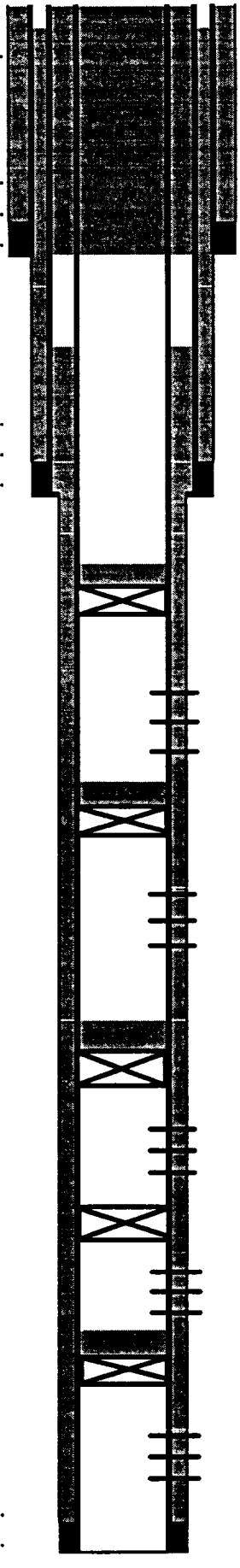
7-65 Set DR plug in Model "D" pkr @ 5722'. Pumped 6 sx 10-20 sd on top & capped w/6 sx cmt. P&A'd Tubb/Drinkard (was prod 5 BOPD & 10 MCFGPD) & tubed for single completion in Blinebry. Blinebry flowed 70 BOPD, 4 BWPD & 301 MCFGP.

7-67 Installed beam pumping equipment

8-80 500 psi on 9-5/8" & 7" csg annulus. Set RBP @ 3500'. Perf'd @ 1175' w/4-1/2" JHPF. Est inj down 7" & up 7-9/8" annulus. Set cmt retainer @ 1125'. Sqzd w/200 sx cmt. Drill out & tested to 500#. Swbd & dry tested - ok. Placed well back on production.

6-86 Perf 5431-33', 5356-57' w/2 JHPF. Perf 5228', 5194', 5193', 5156', 5154', 5124', 5122', 5114', 5079', 5077', 5052', 5050' w/1 JHPF. Set Baker Model "C" RBP @ 5500', set pkr @ 5328', acdz perfs 5431-5356' w/1000 gal 15% NEFE HCl. POH w/RBP & set @ 5326' set pkr @ 5245', acdz existing perfs w/1000 gal 15% NEFE HCl. POH w/RBP & set @ 5242', set pkr @ 5015', acdz upper perfs w/2000 gal 15% NEFE HCl. Drop 2-1.3 SG RCNB's every 4 bbl. Set pkr @ 4990' Frac upper perfs w/53,500 gal 40# X-link gel w/1/2 to 12 ppg sd. Swb back SD. Reverse out SD to RBP to 5242'. POH w/RBP. RIH w/rods & tbg, pmp well. (6-2-86) Pmp 12 BO/24 BW/30 MCFPD.

WELLBORE SCHEMATIC



TOC @ 250' by TS.

17-1/2" Hole.
13-3/8" casing @ 315'.
Set w/375 sxs cmt. Circ.

8-3/4" Hole.
7" casing @ 3148.
Set w/665 sxs cmt.

6-3/4" hole.
4-1/2" csg @ 5450' w/250 sxs cmt.

Vinson Ramsay 'B' #1

ARCO Oil and Gas Company
660' FSL & 660' FWL (M)
Sec 36, T-25S, R-37E, Lea Co., NM
KB-3034'
Spudded 03/23/51
Completed 05/18/51
P&A'd 06/16/77

Perf'd @ 365'. Sqzd w/80 sxs & circ to surface

TOC @2700' by TS

CIBP @ 4704' capped w/35' cement

Glorieta Perfs @ 4754' to 4930'

CIBP @ 4960' w/1 sx cmt cap

Paddock Perfs @ 4988' to 5041'

CIBP @ 5165'

Blinebry Perfs @ 5181' to 5227'

CIBP @ 5250'

Perfs @ 5259' to 5261'

CIBP @ 5310' w/2 sxs cmt on top

Blinebry Perfs @ 5325' to 5410'

TD @ 5450'.

VINSON RAMSAY "B" #1

LOCATION: 660' FSL & 660' FWL (M), SEC. 36, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: ARCO OIL AND GAS COMPANY

BLM TRACT NUMBER: 35 **API NUMBER:** 3002511913

SPUD DATE: 3/23/51

KB: 3034' GL: 3022' TD: 5450' PBTD: 5410'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			315'	375 sxs cmt, circ
7"	20#		3148'	665 sxs cmt, (TOC @ 2700'-TS)
4-1/2"	9.5#		5450'	250 sxs cmt

LOGS:

Date	Company	Log Name
11/25/62	Schlumberger	Sonic, LL, MLL

DST's:

INITIAL COMPLETION: OH 3148-3300', Shot w/225 qts SNG from 3199-3290', CO to 3300'. Flwd well.

INITIAL COMPLETION DATE: 5/18/51

TREATMENTS AND WORKOVERS

6-52 Install pmpg equipment 25 BO/6 BWPD

8-56 Frac Langlie Mattix, set pkr @ 3120'. Frac w/12,000 gal gel oil w/1 ppg sd. C/O to 3300', flwd 48 BO/20 BW & 375 MCFPD.

11-62 Deepen to the Blinebry. Drill to 5450', Ran 4-1/2" csg, perf 5325-5410' w/4-1/2" JHPF. Frac w/15,000 gal gel oil, Max TP 2900#. Pmp 74 BO/128 BW/43 MCFPD.

VINSON RAMSAY "B" #1

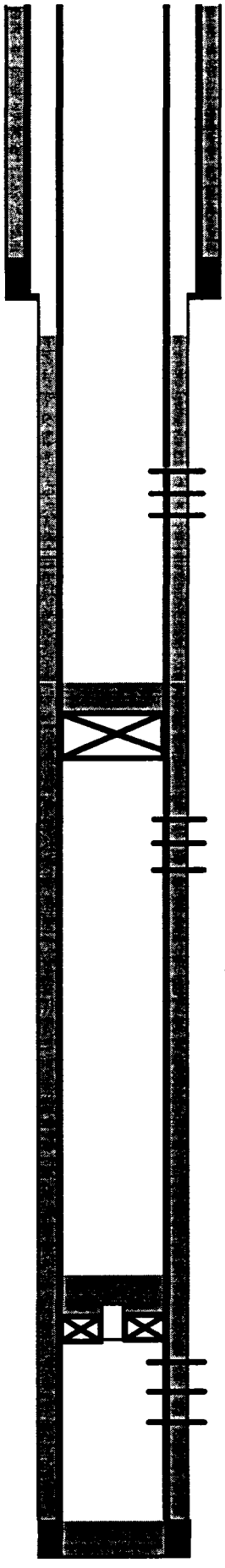
12-76 C/O to 5395', set CIBP @ 5310', pmp 2 sx cmt, perf 5181-5261' w/4-1/2" JHPF, swb. Set CIBP @ 5250', Abandon lower perfs. Acidize perfs 5181-5227' w/2500 gal 15% NEA. Frac w/28,200 gal gel wtr w/1/2 to 3 ppg 20-40 sd. Ran pmpg equipment, pmp all wtr. SI

4-77 Set CIBP @ 5165', cap w/2-1/2 sx cmt. Perf Paddock 4988-5041' w/4-1/2" JHPF. Acidize w/3000 gals 15% NEA swb well, ran pump equipment, no oil prod. Set CIBP @ 4960', cap w/1 sx cmt. Perf Glorieta 4921-30' w/4-1/2" JHPF. Acidize w/2000 gal 15% NEA, swb well, wtr only. Sqz perfs w/150 sx Cl "C" cmt. Perf U/Glorieta 4754-60' w/4-1/2" JHPF, acidized w/2000 gal 15% NEA. Prod wtr only.

6-77 Set CIBP @ 4704', cap w/35' cmt. Perf 4-1/2" csg 1160' & 1215', would not circ. Perf 365' w/4-3/8" holes, sqz w/80 sx Class "C" cmt. Circ to surf between 4-1/2" & 7". P&A

Pulled producing equipment. Set CIBP at 4704' and capped with 35' cement. Loaded hole with abandonment mud. Perforated 4-1/2" casing at 1215' and 1160', would not circulate. Perforated 4-1/2" casing at 365' with 4, 3/8" holes. Squeezed with 80 sxs Class C cement down 4-1/2" casing and circulated to surface between 4-1/2" & 7" casing. Installed dry hole marker and cleaned location. Complete 6-16-77 after Plug & Abandon.

WELLBORE SCHEMATIC



South Justis Unit F #30

(ARCO Vinson Ramsay B #11)
990' FSL & 1980' FWL (N)
Sec. 36, T-25S, R-37E, Lea Co., NM
KB 3037'
Spudded 08/16/62
Completed 10/25/62

12-1/4" hole.
9-5/8" casing @ 936'.
Set w/300 sxs cmt. Circ.

TOC @ 1938' by TS

Blinebry Perfs @ 5062' to 5103'

CIBP @ 5120'

Blinebry Perfs @ 5134' to 5370'

Baker Model D Pkr @ 5760'

Tubb/Drinkard Perfs @ 5792' to 5820'

8-3/4" hole.
7" csg @ 5885'.
Set w/600 sxs cmt.

PBD 5855'
TD @ 5885'.

SOUTH JUSTIS UNIT "F" #30

LOCATION: 990' FSL & 1980' FWL (N), SEC. 36, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: VINSON RAMSAY "B" #11

BLM TRACT NUMBER: 35 **API NUMBER:** 3002511920

SPUD DATE: 8/16/62

KB: 3037' GL: 3025' TD: 5885' PBTD: 5120'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"			936'	300 sxs cmt, circ
7"	23#	J-55	5885'	600 sxs cmt, (TOC @ 1938'-TS)

LOGS:

Date	Company	Log Name
9/1/62	Schlumberger	Sonic, MLL

DST's:

INITIAL COMPLETION: IP: Blinebry 5134-5370', P 87 BOPD & 100 BWPD
IP: Tubb/Drinkard 5134-5820', P 41 BOPD & 73 BWPD

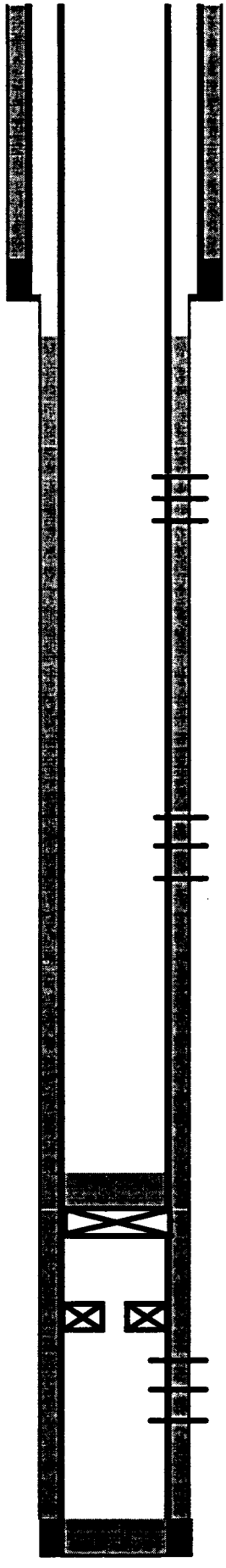
INITIAL COMPLETION DATE: 10/25/62

TREATMENTS AND WORKOVERS

9-64 Set 'DR' plug in Baker Model "D" pkr @ 5760', pmp 5 sx 20-40 frac sd & 10 sx cmt on top. Return to prod as Blinebry single.

10-75 Set CIBP @ 5120', pmp 2 sx cmt on top. Perf Upper Blinebry 5062-64', 5088-90', 5101-03' w/4-1/2" JHPF. Frac w/6000 gal gel brine & 15,000 gal gel brine w/1-3 ppg sd. Flsh w/30 bbl gel brine. ISIP 900#. Swb & clean up. Ran rods & tbg. Pmp 10 BO 64 BWPD.

WELLBORE SCHEMATIC



South Justis Unit G #30

(ARCO Vinson Ramsay B #10)
990' FSL & 1980' FEL (O)
Sec. 36, T-25S, R-37E, Lea Co., NM
KB 3039'
Spudded 07/02/62
Completed 07/22/62

12-1/4" hole.
9-5/8" casing @ 926'.
Set w/300 sxs cmt. Circ.

TOC @ 2188' by TS

Upper Blinebry Perfs @ 5028' to 5179'

Blinebry Perfs @ 5232' to 5398'

CIBP @ 5480'

Baker Model D Pkr @ 5688'

Tubb/Drinkard Perfs @ 5764' to 5812'

8-3/4" hole.
7" csg @ 5885'.
Set w/625 sxs cmt.

PBD 5883'
TD @ 5885'.

SOUTH JUSTIS UNIT "G" #30

LOCATION: 990' FSL & 1980' FEL (O), SEC. 36, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: VINSON RAMSAY "B" #10

BLM TRACT NUMBER: 35 **API NUMBER:** 3002511919

SPUD DATE: 7/2/62

KB: 3039' GL: 3027' TD: 5885' PBTD: 5883'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"			926'	300 sxs cmt, circ
7"	23#	J-55	5885'	625 sxs cmt, (TOC @ 2188'-TS)

LOGS:

Date	Company	Log Name
7/19/62	Schlumberger	Sonic, LL, MLL

DST's:

INITIAL COMPLETION: Perf Tubb/Drinkard 5764-5812' w/2-1/2" JHPF, Acdz w/1000 gal 15% NEA. Perf Blinebry 5232-40' w/2-1/2" JHPF & 5272-5310' w/4-1/2" JHPF. Acdz w/750 gal NEA & frac w/42,000 gal. Flow as Blinebry-Tubb/Drinkard Dual.P 61/74 BOPD & 16/0 BWPD.

INITIAL COMPLETION DATE: 7/22/62

TREATMENTS AND WORKOVERS

4-65 Set CIBP @ 5480', pmp 2 sx cmt on top. Run rods & tbg & pmp as Blinebry single. Pmp 250 gal 15% NEA down tbg.

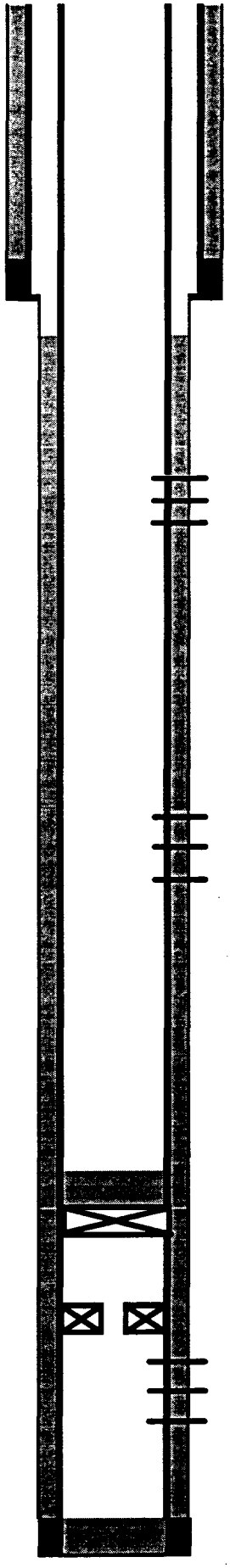
6-65 Pmp 100 gal lse crude w/20 gal scale converter. Pmp 750 gal 5% NEA pmp 200 bbl lse crude @ max press 1250#, min 500#, ISIP 950#. Circ well & start pmpg, 38 BO/5 BWPD.

10-66 Perf 5344-46', 5396-98' w/4-1/2" JHPF. Frac w/24,000 gal gel lse oil, 32,000# 20-40 sd, 48 RCNB's & 600# Adomite in 4 stages. Flushed w/212 BO. Avg press 2100#, ISIP 1150#. Ran rods & tbg. Pmp 90 BO/117 BW/15 MCFPD.

SOUTH JUSTIS UNIT "G" #30

6-75 Perf Blinebry 5028-5179' w/4-1/2" JHPF. Acidize w/1500 gal NEA, Frac w/12,000 gal of gel brine & 40,000 gal of gel wtr w/1 to 3 ppg sd. Flushed w/46 BW, ISIP 1500#, swb & clean up. Ran rods & tbg. Pmp 45 BO/162 BWPD.

WELLBORE SCHEMATIC



South Justis Unit H #30

(ARCO Vinson Ramsay B #9)
990' FSL & 660' FEL (P)
Sec. 36, T-25S, R-37E, Lea Co., NM
KB 3042'
Spudded 04/27/62
Completed 06/04/62

12-1/4" hole.
9-5/8" casing @ 935'.
Set w/260 sxs cmt. Circ.

TOC @ 2140' by TS

Upper Blinebry Perfs @ 5070' to 5168'

Blinebry Perfs @ 5250' to 5396'

CIBP @ 5623'

Baker Model D Pkr @ 5785'

Tubb/Drinkard Perfs @ 5795' to 5822'

8-3/4" hole.
7" csg @ 5900'.
Set w/650 sxs cmt.

PBD 5885'
TD @ 5900'.

SOUTH JUSTIS UNIT "H" #30

LOCATION: 990' FSL & 660' FEL (P), SEC. 36, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: VINSON RAMSAY "B" #9

BLM TRACT NUMBER: 35 **API NUMBER:** 3002511918

SPUD DATE: 4/27/62

KB: 3042' GL: 3030' TD: 5900' PBTD: 5613'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"			935'	260 sxs cmt, circ
7"	23#	J-55	5900'	650 sxs cmt, (TOC @ 2140'-TS)

LOGS:

Date	Company	Log Name
6/1/62	Schlumberger	Sonic, LL

DST's:

INITIAL COMPLETION: Perf Tubb/Drinkard w/4-1/2" JHPF. Acidize w/5000 gals 15% NEA. Well flwg 5795-5822'

INITIAL COMPLETION DATE: 6/4/62

TREATMENTS AND WORKOVERS

7-62 Perf Blinebry 5250-5396' w/4 JHPF. Acidized w/6000 gal 15% NEA. Flowed 75 BO/8 BWPD from Blinebry. Comp well as Blinebry-Tubb/Drinkard Dual.

3-65 Set CIBP @ 5623', pump 2 sx cmt on top. PBTD 5613', Run rods & tbg. Pmp as Blinebry single.

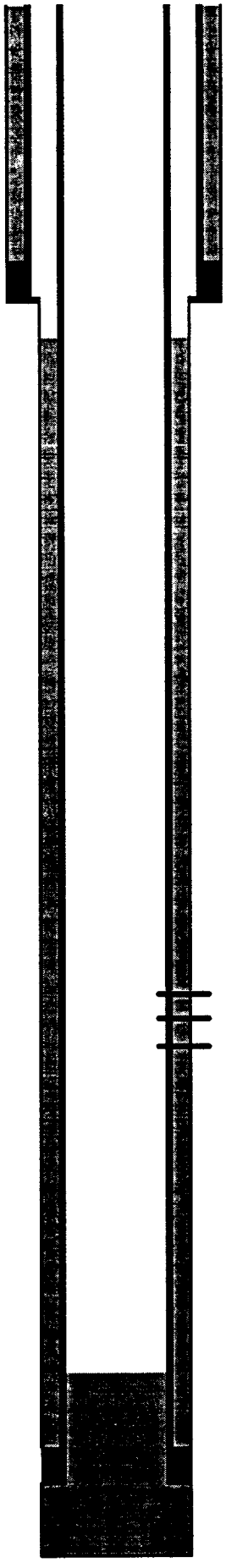
12-66 Spot 500 gal 15% NEA over Blinebry perfs. Frac w/24,000 gal gel brine, 32,000# 10-20 sd, 600 bbls Adomite Aqua & 72 RCNB's in 4 stages, w/2 ppg sd. Max press 2400#, min press 1600#. ISIP 900#. Ran tbg & rods. Pmp 27 BO/18 BWPD.

SOUTH JUSTIS UNIT "H" #30

7-73 Perf Upper Blinebry 5070-72', 5108-10', 5135-37', 5152-54', 5166-68' w/4-1/2" JHPF. Frac new perfs w/1050 gal of 15% NEA, 26,000 gal of gel wtr & 24,000# sd. Max press 4100#, ISIP 750#. Ran rods & tbg.

8-82 Pmp 1000 gals 15% NEFE. Return to prod after pump acid job.

WELLBORE SCHEMATIC



South Justis Unit H #31

(Texaco G. D. Riggs "B" Well No. 6)
660' FNL & 560' FEL (A)
Sec. 1, T-26S, R-37E, Lea Co., NM
KB 3039'
Spudded 05/04/62
Completed 06/11/62

11" hole.
8-5/8" casing @ 900'.
Set w/550 sxs cmt. Circ.

TOC @ 2110' by TS

Blinebry Perfs @ 5100' to 5344'

8-3/4" hole.
5-1/2" csg @ 6036'.
Set w/475 sxs cmt.

PBD @ 6001'

TD @ 6086'.

SOUTH JUSTIS UNIT "H" #31

LOCATION: 660' FNL & 560' FEL (A), SEC. 1, T-26S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: TEXACO

FORMER WELL NAME: G. D. RIGGS "B" #6

BLM TRACT NUMBER: 27 **API NUMBER:** 3002511929

SPUD DATE: 5/4/62

KB: 3039' GL: TD: 6086' PBTD: 6001'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"			900'	550 sxs cmt, circ
5-1/2"	15.5#	J-55	6036'	475 sxs cmt, (TOC @ 2110'-TS)

LOGS:

Date	Company	Log Name
5/21/62	Schlumberger	Sonic, LL, MLL

DST's:

1	5715-5898'	Rec 300' SGCM
2	5896-6086'	Rec 50" HGCM + 25' Oil + 315' SGCSW

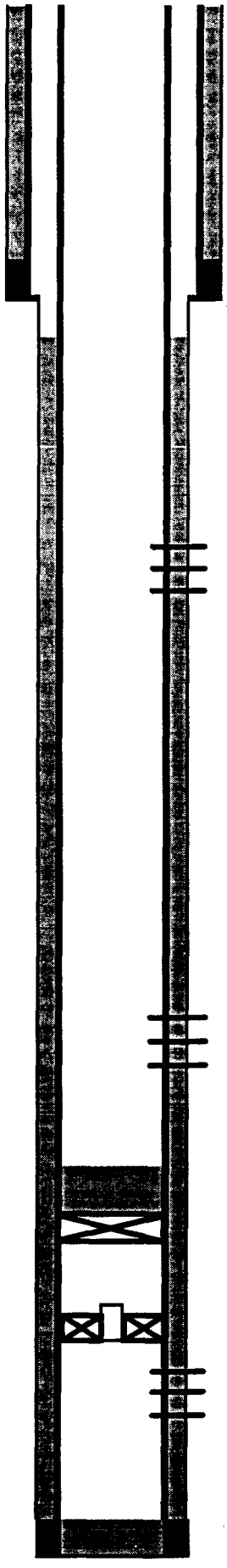
INITIAL COMPLETION: Blinebry 5100-5344', A/500, F/24/60, 544 BO/0 BW/351 MCF/F GOR 646

INITIAL COMPLETION DATE: 6/11/62

TREATMENTS AND WORKOVERS

Tested Tubb 5854-5988' non-commercial
Blinebry perfs: 36/5100-18', 8/5137-41', 8/5144-48', 12/5152-58', 12/5170-76', 8/5305-09', 12/5338-44'

WELLBORE SCHEMATIC



South Justis Unit G #31

(Texaco G. D. Riggs "B" No. 8)
330' FNL & 1650' FEL (B)
Sec. 1, T-26S, R-37E, Lea Co., NM
KB 3045'
Spudded 09/21/62
Completed 10/29/62

11" hole.
8-5/8" casing @ 907'.
Set w/450 sxs cmt. Circ.

TOC @ 1995' by TS

Langlie Mattix Perfs @ 3169' to 3292'

Blinebry Perfs @ 5111' to 5402'

Tubb/Drinkard Perfs @ 5769' to 5824'
P&A 1966

8-3/4" hole.
5-1/2" csg @ 5900'.
Set w/582 sxs cmt.

PBD @ 5866'
TD @ 5900'.

SOUTH JUSTIS UNIT "G" #31

LOCATION: 330' FNL & 1650' FEL (B), SEC. 1, T-26S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: TEXACO

FORMER WELL NAME: G. D. RIGGS "B" #8

BLM TRACT NUMBER: 27 **API NUMBER:** 3002511966

SPUD DATE: 9/21/62

KB: 3045' GL: 3030' TD: 5900' PBTD: 5866'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"	24#		907'	450 sxs cmt, circ
5-1/2"	15.5#		5900'	582 sxs cmt, (TOC @ 1995'-TS)

LOGS:

Date	Company	Log Name
1/24/60	Schlumberger	GR-N, LL

DST's:

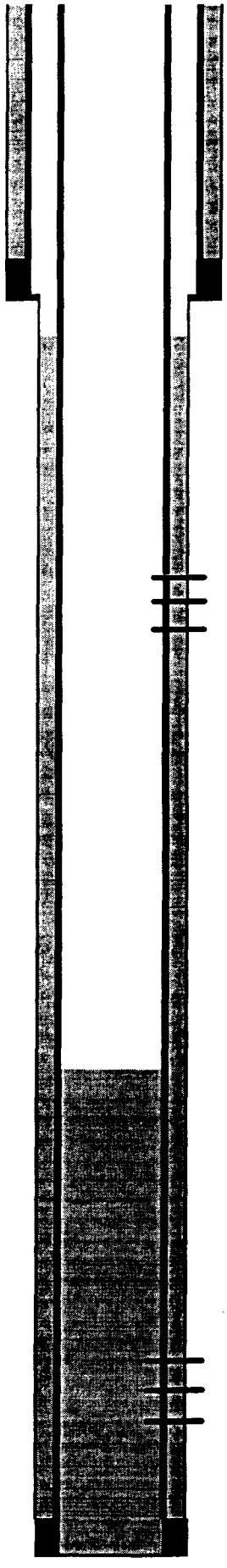
INITIAL COMPLETION: Dual-Blinebry 5111-5402', A/500 F/24/44, 80 BO/35 BW/? MCF/F
Tubb 5769-5824', A/5000, 26 BO/1 BW/? MCF/P

INITIAL COMPLETION DATE: 10/29/62

TREATMENTS AND WORKOVERS

11-63	Install P.E. Blinebry
2-66	P&A Tubb Prior Prod: 2 BO/7 BW/P
6-83	Temp Abandoned Blinebry Recomplete to Langlie Mattix Queen
2-84	Downhole Commingle Langlie Mattix Queen & Blinebry Langlie Mattix perfs SO/3169-3292', A/2500, F/9450 gals, 436 MCF N_2, 70,000# Sd, IP P 2 BO, 18 BW, 42,500 GOR (6-13-83)

WELLBORE SCHEMATIC



G. D. Riggs "A" #3

Texaco
330' FNL & 2310' FWL (C)
Sec. 1, T-26S, R-37E, Lea Co., NM
KB 3035'
Spudded 12/23/62
Completed 01/15/63

11" hole.
8-5/8" casing @ 902'.
Set w/465 sxs cmt. Circ.

TOC @ 2000' by TS

Langlie Mattix Perfs @ 3157' to 3276'

PBD 3770'

Blinebry Perfs @ 5147' to 5396'
P&A 11/72

7-7/8" hole.
5-1/2" csg @ 5500'.
Set w/650 sxs cmt.

TD @ 5500'.

G. D. RIGGS "A" #3

LOCATION: 330' FNL & 2310' FWL (C), SEC. 1, T-26S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: ARNOTT RAMSAY "F" #5

BLM TRACT NUMBER: **API NUMBER:** 3002520067

SPUD DATE: 12/23/62

KB: 3035' GL: 3034' TD: 5500' PBTD: 3770'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"	24#	J-55	902'	465 sxs cmt, circ
5-1/2"	15.5#	J-55	5500'	754 sxs cmt, (TOC @ 2000'-TS)

LOGS:

Date	Company	Log Name
12/28/62	Schlumberger	GR-N, LL, MLL, Sonic

DST's:

INITIAL COMPLETION: P&A

INITIAL COMPLETION DATE: 1/15/63

TREATMENTS AND WORKOVERS

1-63 Initial Completion Blinebry 5147-5396'

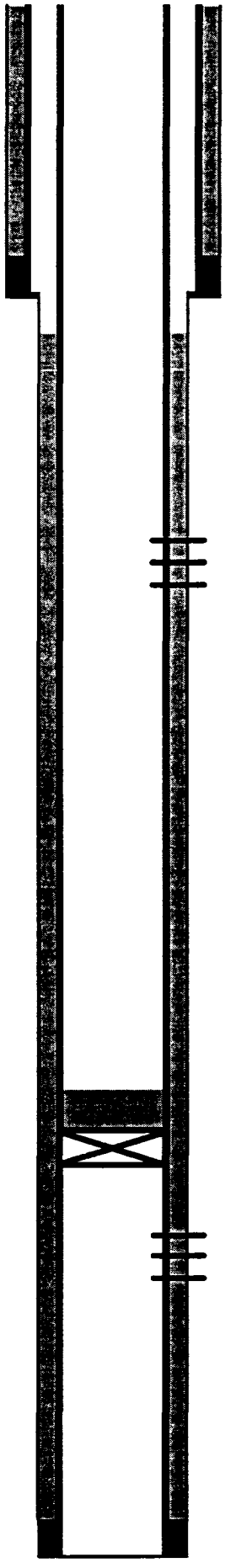
11-72 P&A

6-82 Re-enter as Langlie-Mattix

1-63 Original completion:
Blinebry perfs - 10/5147-52', 16/5156-64', 4/5192-94', 4/5200-02', 8/5234-38', 22/5277-88', 8/5334-38', 8/5350-54', 8/5392-96'
A/500, SF 24,000 gals RO, 37,355# SD
IP P 77 BO, 102 BW, 174 GOR, 38.1° Gravity (1-15-63)

7-82 Langlie-Mattix perfs - 3157-3276'
A/4000, F/30,000 gals & CO_2 + 58,000# SD, P 100 BO, 25 BW, 508 GOR,
Well excluded from Unit

WELLBORE SCHEMATIC



G. D. Riggs "B" #7

Texaco
1650' FNL & 330' FEL (H)
Sec. 1, T-26S, R-37E, Lea Co., NM
KB 3037'
Spudded 07/05/62
Completed 08/02/62

12-1/4" hole.
8-5/8" casing @ 930'.
Set w/360 sxs cmt. Circ.

TOC @ 2115' by TS

Langlie Mattix Perfs @ 3219' to 3376'

PBD @ 5015'
CIBP @ 5050' w/4 sxs cmt

Blinebry Perfs @ 5148' to 5514'
Inactive

8-3/4" hole.
5-1/2" csg @ 5814'.
Set w/675 sxs cmt.

TD @ 6100'.

G. D. RIGGS "B" #7

LOCATION: 1650' FNL & 330' FEL (H), SEC. 1, T-26S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: TEXACO

BLM TRACT NUMBER: **API NUMBER:** 3002511930

SPUD DATE: 7/5/62

KB: 3037' GL: TD: 6100' PBTD: 5015'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"			930'	360 sxs cmt, circ
5-1/2"	15.5#	J-55	5814'	675 sxs cmt, (TOC @ 2115'-TS)

LOGS:

Date	Company	Log Name
7/19/62	Schlumberger	Sonic

DST's:

INITIAL COMPLETION: A/500, F/24/32, 49 BO/9 BW/? MCF/F
TP 460#, 7/64" choke, Gravity 36.2°, GOR 724
IP: Blinebry (5148-5514')

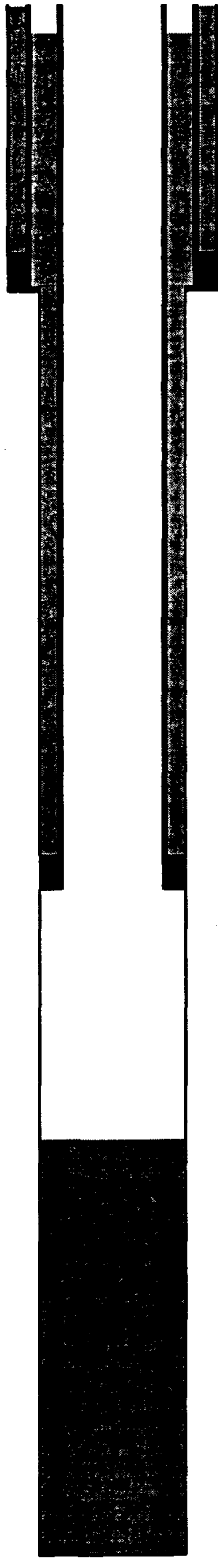
INITIAL COMPLETION DATE: 8/2/62

TREATMENTS AND WORKOVERS

Blinebry Perfs: 40/5148-68', 20/5208-18', 20/5238-48', 38/5280-99', 30/5386-5401', 36/5496-5514', SF 24,000 gals, 24,000#

12-88 Set CIBP @ 5050' w/4 sxs cmt. PBD @ 5015'.
Perf'd Langlie-Mattix 3219-3376'.
A/2000 gals. Frac/14,600 gals GBW, 16,932 gals CO_2 & 58,000# sd.

WELLBORE SCHEMATIC



TOC @ 188' (Calculated).

12-1/4" hole.
8-5/8" casing @ 916'.
Set w/300 sxs cmt. Circ.

7-7/8" hole.
5-1/2" casing @ 3553' w/805 sxs cmt.

Justis SWD H-2

Rice Engineering
1980' FNL & 660' FEL (H)
Sec. 2, T-26S, R-37E, Lea Co., NM
KB 3102'
Spudded 05/17/65
Completed 06/24/65

OH @ 3553' to 4367' (Salt Water Disposal Well)

PBD @ 4367'

TD @ 6865'.

JUSTIS SWD H-2

LOCATION: 1980' FNL & 660' FEL (H), SEC. 2, T-26S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: RICE ENGINEERING

BLM TRACT NUMBER: **API NUMBER:** 3002521325

SPUD DATE: 5/17/65

KB: 3102' GL: TD: 6865' PBTD: 4367'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"			916'	300 sxs cmt, circ
5-1/2"			3553'	805 sxs cmt

LOGS:

Date	Company	Log Name

DST's:

1	4758-5058'	Op 2 hrs 30 min, rec 2700' sul wtr, 30 min ISIP 2078#, FP 197-1140#, 30 min FSIP 1903#

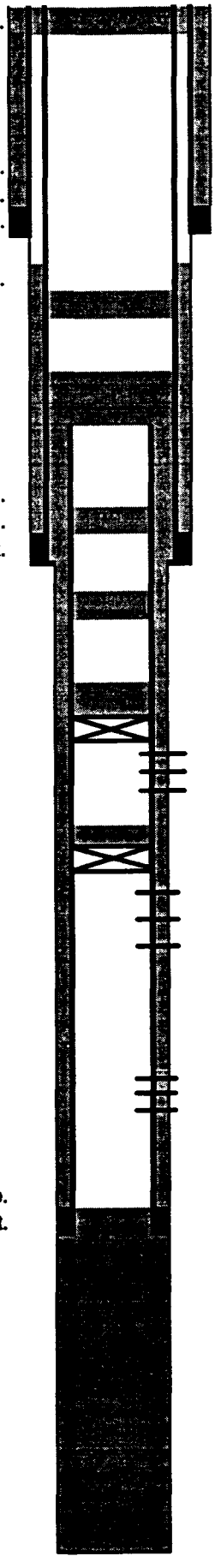
INITIAL COMPLETION: P&A

INITIAL COMPLETION DATE: 6/24/65

TREATMENTS AND WORKOVERS

5-24-65	Drlg 3500'. Cored 3225-85', rec 60' anhy & dolo, w/sand streaks & sli show in sand. Cored 3285-3325', rec 40' same.
6-1-65	TD 4450', prep to set whipstock
6-7-65	TD 4450', drlg by @ 4370' in STH
6-14-65	Drlg 5250'
6-21-65	Drlg 6640'
6-28-65	TD 6865', Plugged & Abandoned, No tests @ TD.
10-21-68	TD 6865', PBD 4367', Complete. Ran 5-1/2" casing. Drld out to 4367'. Acid (OH 3553-4367') 5000 gals
2-11-70	New work done: A/5000 (OH 3553-4367').

WELLBORE SCHEMATIC



Cement Plug (10 sxs) @ Surface.

17-1/2" Hole.
13-3/8" casing @ 541'.
Set w/550 sxs cmt. Circ.

TOC @ 619' by TS.

12-1/4" Hole.
9-5/8" casing @ 3401'.
Set w/1100 sxs cmt.

8-3/4" hole.
5-1/2" csg @ 6070' w/830 sxs cmt.

Buffington "C" #1

Westbrook
430' FSL & 330' FWL (M)
Sec.18, T-25S, R-38E, Lea Co., NM
KB-3096'
Spudded 08/20/60
Completed 10/17/60

Cement Plug @ 950'

Top of 5-1/2" csg @ 2840'
Cement Plug (35 sxs) @ 2840'

Cement Plug (35 sxs) @ 3400'

Cement Plug (35 sxs) @ 4200'

CIBP @ 4900'
Paddock Perfs @ 4976' to 4998'

CIBP @ 5100' w/35' cement

Blinebry Perfs @ 5237' to 5398'

Sqzd Perfs @ 5848' to 5868'

PBD @ 6004'

TD @ 8292'.

BUFFINGTON "C" #1

WELL NAME: BUFFINGTON "C" #1

LOCATION: 430' FSL & 330' FWL (M), SEC. 18, T-25S, R-37E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: WESTBROOK

BLM TRACT NUMBER: **API NUMBER:** 3002512406

SPUD DATE: 8/20/60

KB: 3096' GL: 3078' TD: 8292' PBTD: 6004'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			541'	550 sxs cmt, circ
9-5/8"			3401'	1100 sxs cmt, (TOC @ 619'-TS)
5-1/2"			6070'	830 sxs cmt, (TOC @ 2600'-TS)

LOGS:

Date	Company	Log Name
9/29/60	Schlumberger	Sonic

DST's:

1	5840-5940'	Op 2', rec 60' mud, FP-120, 30" SIP-180, 30" FSIP-190
2	5300-5500	Op 3', rev out 50' gas, 100' mud, rec 90' USO&GCM, 30" ISIP-400, FP-120, 30" FSIP-380
3	7610-70'	Op 2', rec 290' mud, 30" SIP 558, FP 349, 30" SIP-349

INITIAL COMPLETION: IP: Blinebry (5237-5398'), P 221 BO, 120 BW

INITIAL COMPLETION DATE: 10/17/60

BUFFINGTON "C" #1

TREATMENTS AND WORKOVERS

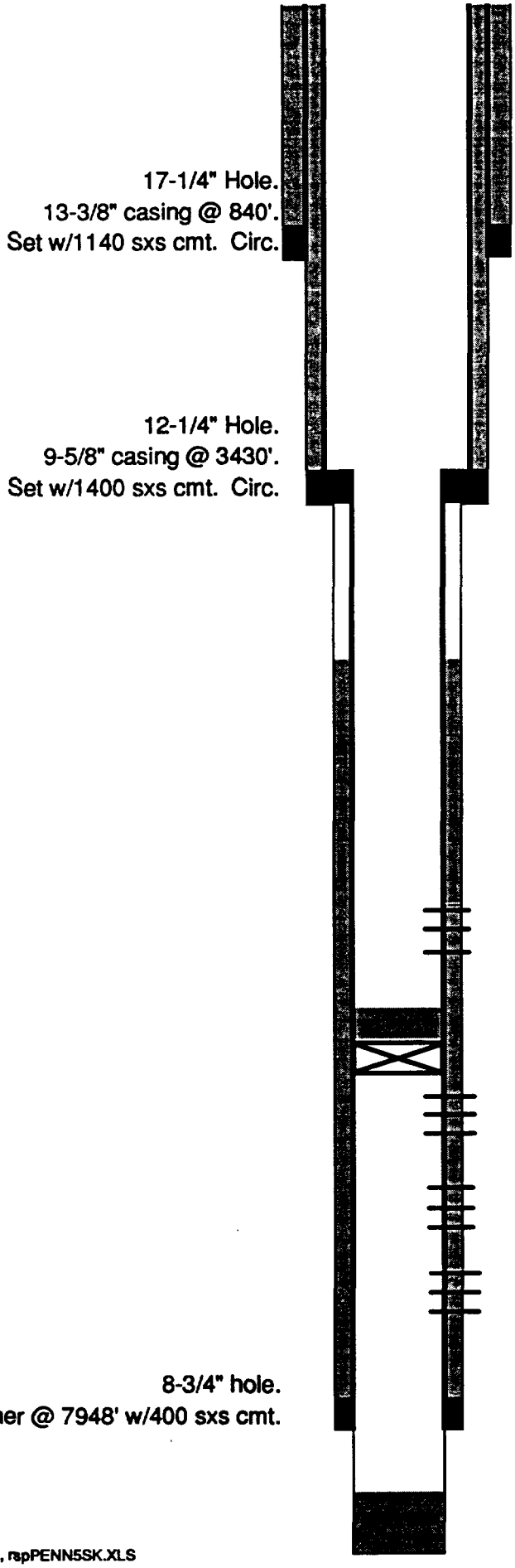
Perf'd 5848-58' (2 spf). A/2000 gals, sqzd w/20 sxs

Perf'd Blinebry 5237-52' (30), 5262-71' (14), 5286-90' (8), 5366-71' (10), 5394-98' (8), A/1000 gals, F/10,000 gals, 44,000#.

P&A 1988

6-74 Set CIBP @ 5100' w/35' cmt. Perf'd Paddock 4976-98'. A/1000 gals. No recovery. Set CIBP @ 4900' w/2 sxs cmt. Shot 5-1/2" csg @ 2840' and pulled. Set 35 sxs cmt plugs at 4200', 3400', 2840', and 950'. Set 10 sxs plug at surface. P&A 7-25-74

WELLBORE SCHEMATIC



C. E. Penney Fed (NCT-4) #5
Texaco
990' FNL & 330' FWL (D)
Sec.19, T-25S, R-38E, Lea Co., NM
KB-3085'
Spudded 02/19/60
Completed 04/16/60

17-1/4" Hole.
13-3/8" casing @ 840'.
Set w/1140 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3430'.
Set w/1400 sxs cmt. Circ.

7" Liner @ 3313'

TOC @ 4700' by Log

Sqzd McKee Perfs @ 7185' to 7264'

PBD @ 7575'
CIBP @ 7610' w/35' cmt on top

Sqzd Ellenburger Perfs @ 7764' to 7776'

Ellenburger Perfs @ 7818' to 7828'

Sqzd Ellenburger Perfs @ 7848' to 7861'

8-3/4" hole.
7" liner @ 7948' w/400 sxs cmt.

Open Hole 7948' to 7970'

PBD @ 7970'
TD @ 7990'.

C. E. PENNY FED (NCT-4) #5

LOCATION: 990' FNL & 330' FWL (D), SEC. 19, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: TEXACO

BLM TRACT NUMBER: 28 **API NUMBER:** 3002512417

SPUD DATE: 2/19/60

KB: 3085' GL: TD: 7990' PBTD: 7970'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"	48#	H-40	840'	1140 sxs cmt, circ
9-5/8"	36#	J-55	3430'	1400 sxs cmt, circ
7" Lnr	23#	J-55	3313-7948'	400 sxs cmt, (TOC @ 4700'-TS)

LOGS:

Date	Company	Log Name
4/7/60	Welex	GR-N,

DST's:

INITIAL COMPLETION: 4/14/60 - F 13 hrs, Acid, 500 gal 7948-7990', 193 BO, 3 BW, GOR 2450
4/15/60 - F 8 hrs, Acid, 500 gal 7185-7264', 113 BO, 1 BW, GOR 1434

INITIAL COMPLETION DATE: 4/16/60

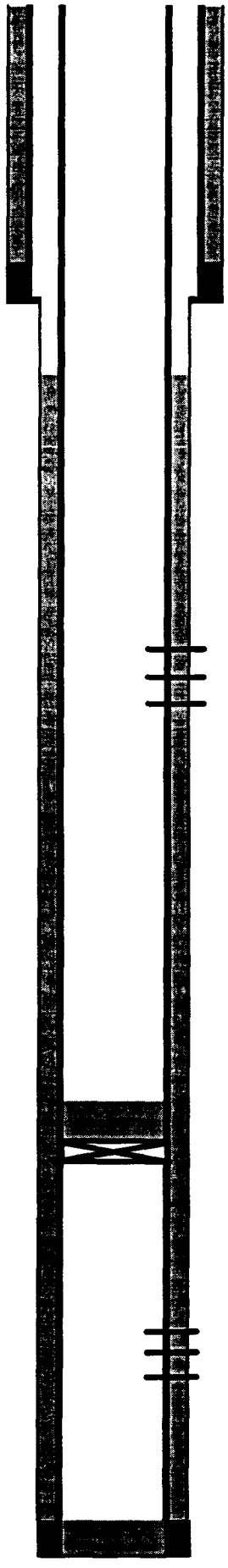
TREATMENTS AND WORKOVERS

8-72 Sqzd McKee perfs 7158-7264' w/125 sxs
Perf'd Ellenburger 7848-61' w/2 spf. A/500 gals, Sqzd 7848-61' w/100 sxs. Set CIBP @ 7898'. Perf'd Ellenburger 7818-28'. A/500 gals. IPP 76 BO, 28 BW.

11-73 Perf'd Ellenburger 7764-76'. A/500 gals. Set RBP @ 7800 w/4 sxs sd. Sqzd w/75 sxs cmt. CO to 7800'. Perf'd Ellenburger 7662-73'. A/1700 gals. CO to 7970'. Perf'd OH 7950-67'. A/2750 gals.

7-90 Set CIBP @ 7610' w/35' cmt on top. SI

WELLBORE SCHEMATIC



South Justis Unit I #19

(Texaco C. E. Penny Federal (NCT-4) #7)
825' FNL & 330' FWL (D)
Sec. 19, T-25S, R-38E, Lea Co., NM
KB 3085'
Spudded 09/08/61
Completed 12/09/61

9-7/8" hole.
7-5/8" casing @ 876'.
Set w/400 sxs cmt. Circ.

TOC @ 1760' (Calculated)

Blinebry Perfs @ 5123' to 5476'

TOC @ 5483'
CIBP @ 5513' w/30' cmt

Tubb/Drinkard Perfs @ 5807' to 5910'

6-3/4" hole.
5-1/2" csg @ 5948'.
Set w/350 sxs cmt.

TD @ 5948'.

SOUTH JUSTIS UNIT "I" #19

LOCATION: 825' FNL & 330' FWL (D), SEC. 19, T-25S, R-38E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: TEXACO

FORMER WELL NAME: C. E. PENNY FEDERAL (NCT-4) #7

BLM TRACT NUMBER: 28 **API NUMBER:** 3002512419

SPUD DATE: 9/8/61

KB: 3085' GL: TD: 5948' PBTD: 5483'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
7-5/8"	24#	H-40	876'	400 sxs cmt, circ
5-1/2"	14#	J-55	5948'	350 sxs cmt, (TOC @ 1760'-Calc)

LOGS:

Date	Company	Log Name
10/12/61	Lane Wells	GR-N

DST's:

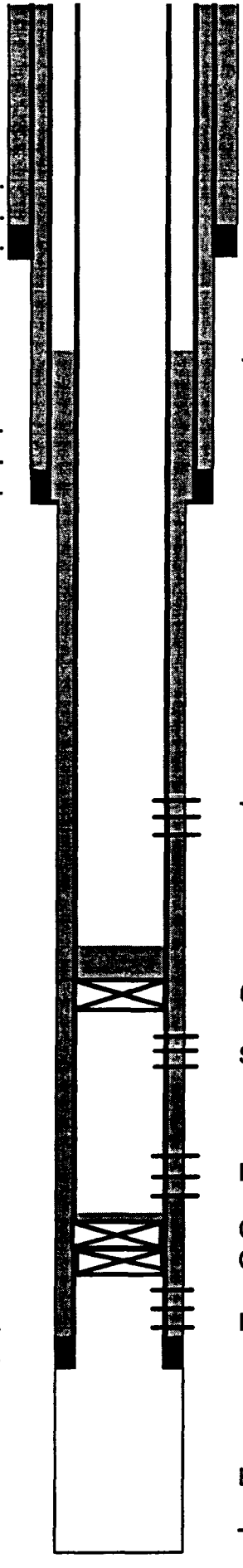
INITIAL COMPLETION: IP: F 12 hrs, 5234-5476', 76 BO, 0 BW, GOR 1177

INITIAL COMPLETION DATE: 12/9/61

TREATMENTS AND WORKOVERS

1-17-74 Blinebry classified TRO
4-74 Add Perf Blinebry (5123-5223'), A/3000, A/2000, F/12 11 BO, 8 BW, GOR 1545,24 hr P

WELLBORE SCHEMATIC



South Justis Unit I #20

(Texaco C. E. Penny Fed #4)
2310' FNL & 330' FWL (E)
Sec.19, T-25S, R-38E, Lea Co., NM
KB-3073'
Spudded 10/10/59
Completed 12/16/59

17-1/2" Hole.
13-3/8" casing @ 880'.
Set w/750 sxs cmt. Circ.

TOC @ 3230' by TS

12-1/4" Hole.
9-5/8" casing @ 3441'.
Set w/1700 sxs cmt. Circ.

Tubb/Drinkard Perfs @ 5806' to 6182'

CIBP @ 6800' w/40' cement

Sqzd Montoya Perfs @ 6854' to 7120'

McKee Perfs @ 7145' to 7265'

CIBP Pushed to Bottom
CIBP @ 7300' w/40' cmt

8-3/4" hole.
7" csg @ 7867' w/900 sxs cmt.

Ellenburger Perfs @ 7702' to 7845'

Ellenburger OH @ 7867' to 7894'

TD @ 7894'.

SOUTH JUSTIS UNIT "I" #20

LOCATION: 2310' FNL & 330' FWL (E), SEC. 19, T-25S, R-38E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: TEXACO

FORMER WELL NAME: C. E. PENNY FEDERAL NCT-4 #4

BLM TRACT NUMBER: 28 **API NUMBER:** 3002512416

SPUD DATE: 10/10/59

KB: 3073' GL: TD: 7894' PBTD:

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"	48#	H-40	880'	750 sxs cmt, circ
9-5/8"	36#	J-55	3441'	1700 sxs cmt, circ (TOC @ 3230' - TS)
7"	23/26#	N-80	7867'	900 sxs cmt, (TOC @ 3230' - TS)

LOGS:

Date	Company	Log Name
11/29/59	Schlumberger	GR-N, IES, ML

DST's:

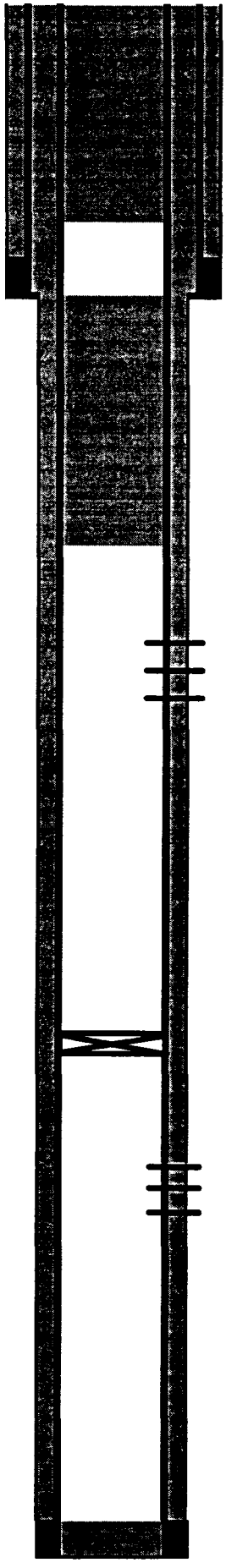
INITIAL COMPLETION: IPP 24-hr test, Acidized with 500 gals from 7145-7215, 105 BO, 0 BW, GOR 507

INITIAL COMPLETION DATE: 12/16/59

TREATMENTS AND WORKOVERS

Tubb/Drinkard perfs 5806-5828'. CIBP @ 6800' w/40' cmt. Sqzd Montoya perfs @ 6854-7016'. McKee perfs @ 7145-7265'. CIBP pushed to bottom, CIBP @ 7300' w/40' cmt. Ellenburger perfs @ 7702-7845'. Ellenburger OH @ 7867-7894'. Recompleted to Justis-Tubb/Drinkard, A/5000, Frac'd/15/16, 5806 - 6182', 69 BO, 70 BW, GOR 1520 on 24-hr test.

WELLBORE SCHEMATIC



Cmt Plug (400 sxs) @ 0' to 803'

9-7/8" hole.
7-5/8" casing @ 880'.
Set w/400 sxs cmt. Circ.

Cmt Plug (750 sxs) @ 922' to 4771'

C. E. Penny Fed (NCT-4) #6
Texaco
1980' FNL & 330' FWL (E)
Sec. 19, T-25S, R-38E, Lea Co., NM
KB 3074'
Spudded 08/08/61
Completed 10/08/61
P&A'd 05/10/85

Blinebry Perfs @ 5094' to 5469'

CIBP @ 5490'

Tubb/Drinkard Perfs @ 5790' to 5889'

6-3/4" hole.
5-1/2" csg @ 5949'.
Set w/350 sxs cmt.

PBD @ 5948'
TD @ 5950'.

C. E. PENNY FED (NCT-4) #6

WELL NAME: C. E. PENNY FED (NCT-4) #6

LOCATION: 1980' FNL & 330' FWL (E), SEC. 19, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: TEXACO

BLM TRACT NUMBER: 28 **API NUMBER:** 3002512418

SPUD DATE: 8/8/61

KB: 3074' GL: TD: 5950' PBTD: 5948'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
7-5/8"			880'	400 sxs cmt, circ
5-1/2"			5949'	350 sxs cmt, (TOC @ 4230' CBL)

LOGS:

Date	Company	Log Name
9/9/61	Lane Wells	GR-N

DST's:

INITIAL COMPLETION: Blinebry (5263-5469'), Flwd 110 BO, TP 300#, 15/64" ck
Tubb/Drinkard (5790-5889'), Flwd 110 BO, TP 250#, 18/64" choke

INITIAL COMPLETION DATE: 8/8/61

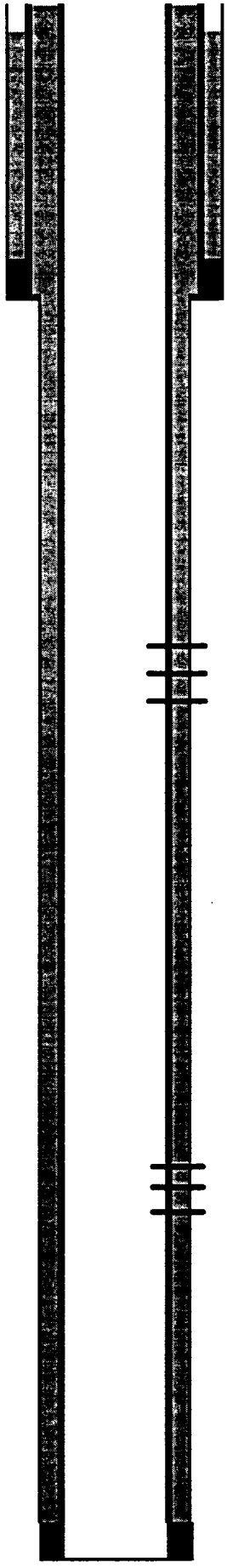
TREATMENTS AND WORKOVERS

9-61 Perf'd Blinebry 5/5263-78', 7/5284-5305', 7/5318-38', 1/5352-55', 3/5379-88', 10/5392-5422', 2/5432-38', 3/5460-69', 5/5790-5805', 3/5812-21', 10/5860-89'. A/5790-5889'/7000 gals, SF/10,000 gals & 15,000# sd. A/5263-5469'/4000 gals, SF/10,000 gals & 10,000#

C. E. PENNY FED (NCT-4) #6

11-71	Set CIBP @ 5490'. Add Blinebry perfs 20/5094-5114', 13/5122-35', 5/5141-46', 6/5153-56', 1 @ 5160', 66', 70, 1/5186-91', 8/5197-5201', 26/5215-28', 2 @ 5239', 49', A/1000. SOF/27,000 gals, 27,000#, IP P 14 BO, 44 BW, GOR 5860
5-10-85	Spotted 750 sxs cmt plug 922-4771'. Perf'd sqz hole @ 830'. Circ cmt to surface between 7-5/8" x 5-1/2" casing. Spotted 400 sxs cmt plug 0-803'. P&A'd.

WELLBORE SCHEMATIC



South Justis Unit I #21

(Meridian Buffington B #4-D)
2180' FSL & 330' FWL (L)
Sec. 19, T-25S, R-38E, Lea Co., NM
KB 3077'
Spudded 02/25/61
Completed 05/04/61

TOC @ 109' (Calculated).

17-1/2" hole.
13-3/8" casing @ 964'.
Set w/700 sxs cmt.

Blinebry Perfs @ 5315' to 5510'

Sqzd Tubb/Drinkard Perfs @ 5800' to 5890'

8-3/4" hole.
7" csg @ 5980'.
Set w/700 sxs cmt. Circ.

TD @ 5980'.

SOUTH JUSTIS UNIT "I" #21

LOCATION: 2180' FSL & 330' FWL (L), SEC. 19, T-25S, R-38E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: MERIDIAN

FORMER WELL NAME: BUFFINGTON "B" #4-D

BLM TRACT NUMBER: 52 **API NUMBER:** 3002512422

SPUD DATE: 2/25/61

KB: 3077' GL: TD: 5980' PBTD:

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			964'	700 sxs cmt
7"			5980'	700 sxs cmt, circ

LOGS:

Date	Company	Log Name
3/31/61	Welex	Sonic

DST's:

INITIAL COMPLETION: IP: (5315-5510') Blinebry Flwd 105 BO, 548# TP
Tubb (5800-40'), Flwd 66 BO, 4 BW - 150# TP

INITIAL COMPLETION DATE: 5/4/61

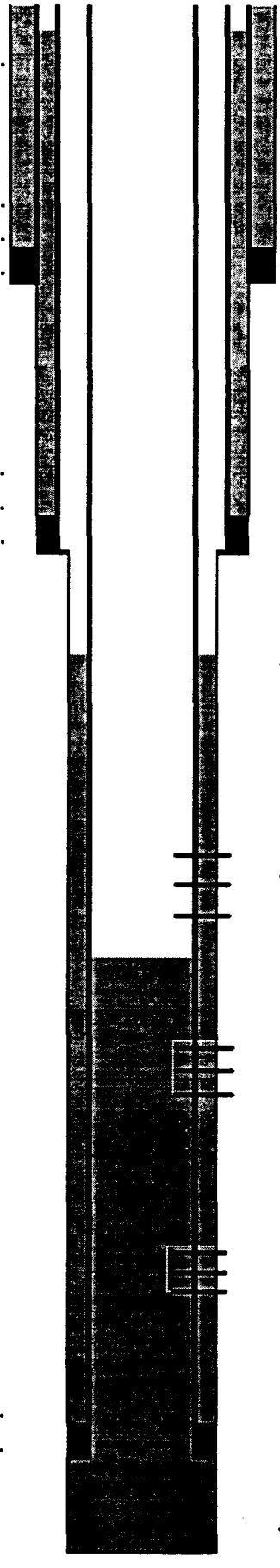
TREATMENTS AND WORKOVERS

Perf Tubb 180/5800-90, A/3500, Swbd 80% wtr, 20% oil. Sqz 5800-90 w/300

Perf Tubb 80/5800-40', A/5000 gals

Perf Blinebry 390/5315-5510', A/1000, F/10,000 gals, 50,000#

WELLBORE SCHEMATIC



TOC @ 215' by TS.

17-1/2" Hole.
13-3/8" casing @ 540'.
Set w/525 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3315'.
Set w/1100 sxs cmt.

8-3/4" hole.
7" csg @ 7900' w/825 sxs cmt.

L. M. Buffington B #2D

Texaco
1650' FSL & 330' FWL (L)
Sec.19, T-25S, R-38E, Lea Co., NM

Spudded 07/23/59
Completed 08/31/59

TOC @ 4950' (Possible Top)

Tubb/Drinkard Perfs @ 5816' to 6186'

PBD @ 7164'

McKee Perfs @ 7314' to 7374'

Ellenburger Perfs @ 7760' to 7825'

Ellenburger OH 7900' to 7950'
TD @ 7950'.

L. M. BUFFINGTON "B" #2D

LOCATION: 1650' FSL & 1980' FWL (K), SEC. 13, T-25S, R-37E
LEA COUNTY, NEW MEXICO

OPERATOR: TEXACO

BLM TRACT NUMBER: **API NUMBER:** 3002512421

SPUD DATE: 7/23/59

KB: GL: TD: 7950' PBTD: 7164'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			540'	525 sxs cmt, circ, (TOC @ 215' - TS)
9-5/8"			3315'	1100 sxs cmt
7"			7900'	825 sxs cmt, (TOC @ 4950' -Possible Top)

LOGS:

Date	Company	Log Name

DST's:

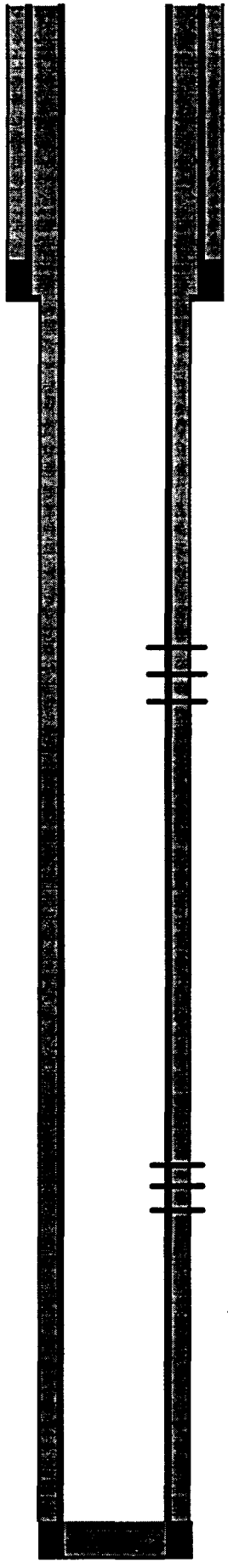
INITIAL COMPLETION: IPF: 308 BO, 7900-7950' Ellenburger formation

INITIAL COMPLETION DATE: 8/31/59

TREATMENTS AND WORKOVERS

McKee Perfs: 7314-7374'

WELLBORE SCHEMATIC



South Justis Unit I #22

(Meridian Buffington B #3-D)
330' FSL & 330' FWL (M)
Sec. 19, T-25S, R-38E, Lea Co., NM
KB 3080'
Spudded 07/03/60
Completed 08/08/60

15-1/2" hole.
13-3/8" casing @ 945'.
Set w/800 sxs cmt. Circ.

Blinebry Perfs @ 5124' to 5706'

Tubb/Drinkard Perfs @ 5750' to 5915'

8-3/4" hole.
7" csg @ 5969'.
Set w/1400 sxs cmt.

PBD @ 5969'
TD @ 5970'.

SOUTH JUSTIS UNIT "I" #22

LOCATION: 330' FSL & 330' FWL (M), SEC. 19, T-25S, R-38E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: MERIDIAN

FORMER WELL NAME: BUFFINGTON "B" #3-D

BLM TRACT NUMBER: 52 **API NUMBER:** 3002512408

SPUD DATE: 7/3/60

KB: 3080' GL: 3068' TD: 5970' PBTD: 5969'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			945'	800 sxs cmt, circ
7"			5965'	1400 sxs cmt

LOGS:

Date	Company	Log Name
7/27/60	Welex	GR-N, Guard

DST's:

INITIAL COMPLETION: IP: Blinebry (5310-5520'), F 337 BO, TP 660#, A/1000 gals
Tubb/Drinkard (5882-5915'), F 156 BO, TP 295#, A/1000 gals

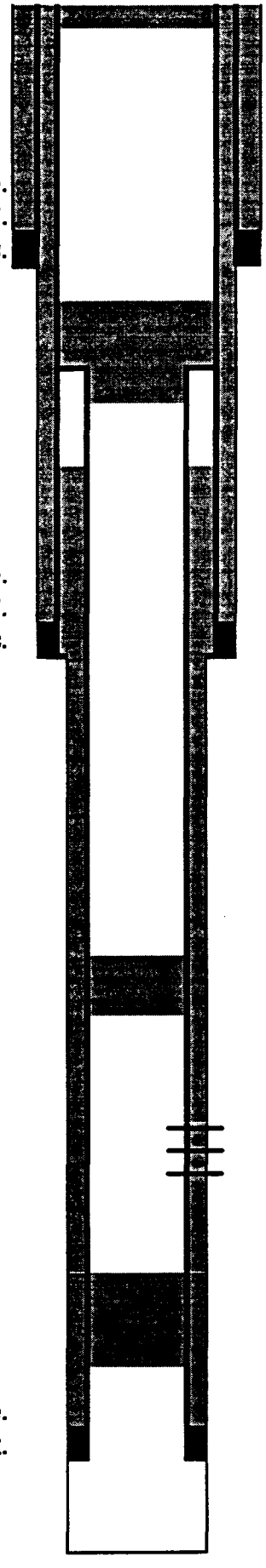
INITIAL COMPLETION DATE: 8/8/60

TREATMENTS AND WORKOVERS

Frac Blinebry w/10,000 gals, 46,000#

2-69 New Tubb/Drinkard perfs - 5750', 52', 54', 66', 74', 80', 94', 96', 5804', 06'. F (5750-5806') 30,000 gals wtr, 45,000# sd
New Blinebry perfs - 5556', 69', 94', 5628', 54', 61', 78', 93', 96', 5704', 06', 5124', 36', 42', 66', 73', 76', 83', 5217', 36', 42', 56', 60', 74', 78'. F (5124-5706') - 80,000 gals wtr, 120,000# sd
F (5124-5278') - 20,000 gals wtr, 20,000# sd

WELLBORE SCHEMATIC



10 sx cmt plug @ surface

17-1/2" Hole.
13-3/8" casing @ 540'.
Set w/525 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3315'.
Set w/1100 sxs cmt. Circ.

8-3/4" hole.
7" csg @ 7990' w/825 sxs cmt.

L. M. Buffington B #1D

Texaco
660' FSL & 330' FWL (M)
Sec.19, T-25S, R-38E, Lea Co., NM

Spudded 05/28/59
Completed 07/13/59

Cmt Plug (25 sxs) @ 1278' to 1380'

Top of 7" csg @ 1354'

TOC @ 2490' by TS

Cmt Plug (25 sxs) @ 7074' to 7250'

McKee Perfs @ 7402' to 7529'

Cmt Plug (25 sxs) @ 7623' to 7799'

Ellenburger OH 7990' to 8025'
TD @ 8025'.

L. M. BUFFINGTON "B" #1D

LOCATION: 660' FSL & 330' FWL (M), SEC. 19, T-25S, R-38E
LEA COUNTY, NEW MEXICO

OPERATOR: TEXACO

BLM TRACT NUMBER: **API NUMBER:** 3002512420

SPUD DATE: 5/28/59

KB: GL: TD: 8025' PBTD:

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			540'	525 sxs cmt, circ,
9-5/8"			3315'	1100 sxs cmt, circ
7"			7990'	825 sxs cmt, (TOC @ 2490' -TS)

LOGS:

Date	Company	Log Name

DST's:

INITIAL COMPLETION: IPF: 271 BO, 7990-8025' Ellenburger formation

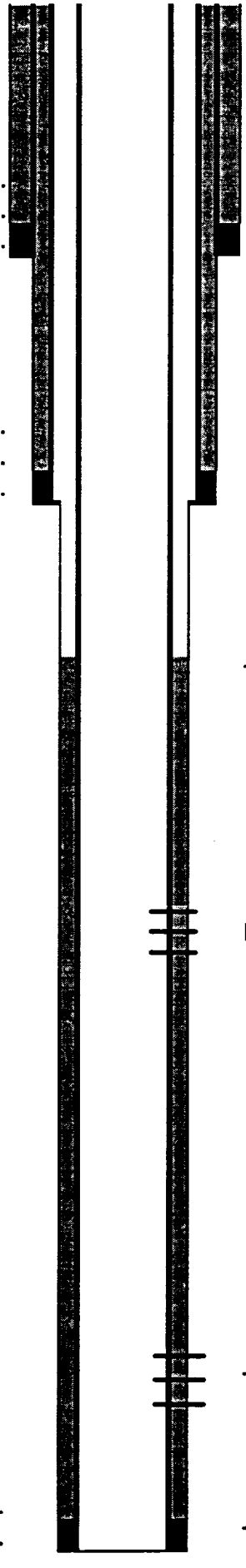
INITIAL COMPLETION DATE: 7/13/59

TREATMENTS AND WORKOVERS

McKee Perfs: 7402-7529'

3-10-72 Set 25 sxs cmt plugs @ 7623-7799', and 7074-7250'. Shot 7" casing @ 1354' and pulled. Set 25 sxs cmt plug @ 1278-1380'. Set 10' cmt plug @ surface. P&A

WELLBORE SCHEMATIC



South Justis Unit I #23

(Texaco Hobbs A #7)
467' FNL & 467' FWL (D)
Sec.30, T-25S, R-38E, Lea Co., NM
KB-3085'
Spudded 08/17/59
Completed 9/25/59

17-1/4" Hole.
13-3/8" casing @ 337'.
Set w/200 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3150'.
Set w/1600 sxs cmt. Circ.

TOC @ 3842' (Calculated)

Blinebry Perfs @ 5117' to 5529'

Tubb/Drinkard Perfs @ 5842' to 5923'

8-3/4" hole.
7" csg @ 5950' w/300 sxs cmt.

TD @ 5950'.

SOUTH JUSTIS UNIT "I" #23

WELL NAME: SOUTH JUSTIS UNIT "I" #23

LOCATION: 467' FNL & 467' FWL (D), SEC. 30, T-25S, R-38E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: TEXACO

FORMER WELL NAME: HOBBS "A" #7

BLM TRACT NUMBER: 32 **API NUMBER:** 3002512437

SPUD DATE: 8/17/59

KB: 3085' GL: TD: 5950' PBTD:

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"	44.5#		337'	200 sxs cmt, circ
9-5/8"	36#		3150'	1600 sxs cmt, circ
7"	23#	N-80/J-55	5950'	300 sxs cmt

LOGS:

Date	Company	Log Name
9/15/59	Schlumberger	GR-N, ML

DST's:

1	5835-5950'	TO 3' Gas 33", 532' OCM 60% oil, 60' Free oil, 20" ISI-2500#, FP 130-220#, 20" FSI 700#

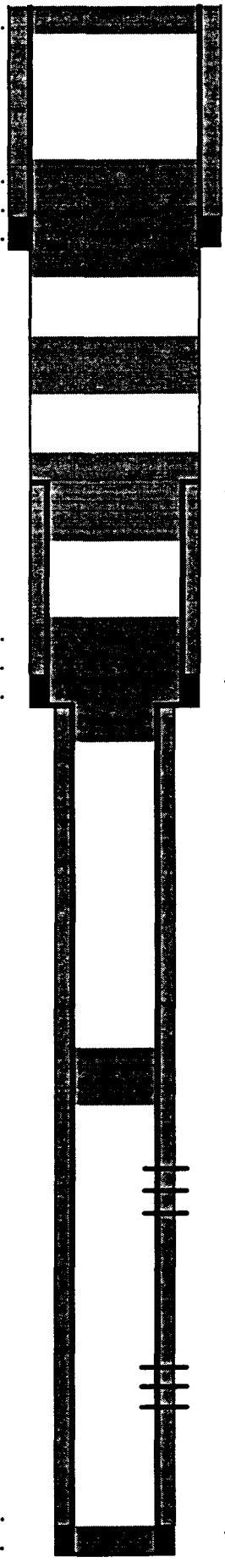
INITIAL COMPLETION: Dual-Blinebry 5340-5529', F/30/26, 1104 BO/0 BW/? MCF/F
Tubbs 5842-5923', A/500, F/20/10, 174 BO/0 BW/? MCF/F

INITIAL COMPLETION DATE: 9/25/59

TREATMENTS AND WORKOVERS

12-68	Add. Perf Blinebry 5117-5309', A/2500/ F/22/30 5117-5529', 85 BO/ 3 BW/438 MCF/P
10-74	Downhole commingle Tubbs & Blinebry 6 BO/30 BW/? MCF/P

WELLBORE SCHEMATIC



Cmt Plug (10 sxs) @ Surface.

17-1/4" Hole.
13-3/8" casing @ 337'.
Set w/300 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3150'.
Set w/1400 sxs cmt. Circ.

8-3/4" hole.
7" csg @ 8208' w/700 sxs cmt.

Hobbs A #5

Texaco
330' FNL & 330' FWL (E)
Sec. 30, T-25S, R-38E, Lea Co., NM
KB-3085'
Spudded 03/27/59
Completed 05/29/59

Cmt Plug (25 sxs) @ 324' to 370'

Cmt Plug (25 sxs) @ 997' to 1044'

Cmt Plug (25 sxs) @ 1107' to 1170'
Top of 9-5/8" csg @ 1136'

Cmt Plug (25 sxs) @ 3075' to 3175'
Top of 7" csg @ 3150'

Cmt Plug (25 sxs) @ 7224' to 7400'

McKee Perfs @ 7658' to 7703'

Ellenburger Perfs @ 8160' to 8195'

PBD @ 8206'
TD @ 8208'.

HOBBS "A" #5

LOCATION: 330' FNL & 330' FWL (E), SEC. 30, T-25S, R-38E
LEA COUNTY, NEW MEXICO

OPERATOR: TEXACO

BLM TRACT NUMBER: **API NUMBER:** 3002512436

SPUD DATE: 3/27/59

KB: 3085' GL: TD: 8208' PBTD: 8206'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			337'	300 sxs cmt, circ
9-5/8"			3150'	1400 sxs cmt, circ
7"			8208'	700 sxs cmt

LOGS:

Date	Company	Log Name

DST's:

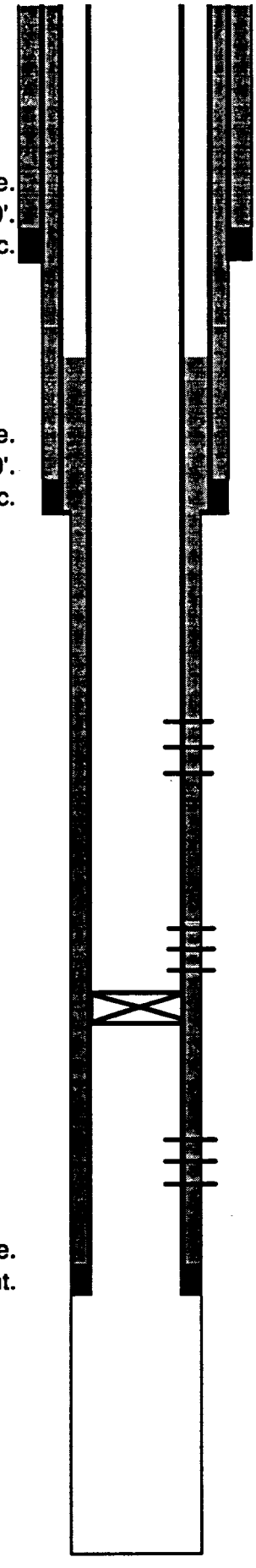
INITIAL COMPLETION: IPF: 648 BOPD, Ellenburger 8160'-8195' on 44/64" ck

INITIAL COMPLETION DATE: 5/29/59

TREATMENTS AND WORKOVERS

11-27-72 Set 25 sxs cmt plug @ 7224-7400'. Shot 7" casing @ 3150' and pulled. Shot 9-5/8" casing @ 1136' and pulled. Set 25 sxs cmt plugs @ 3075-3175', 1107-1170', 997-1044', and 324-370'. Set 10 sxs cmt plug @ surface. P&A'd

WELLBORE SCHEMATIC



South Justis Unit I #24

(Texaco Hobbs A #6)
1650' FNL & 330' FWL (E)
Sec.30, T-25S, R-38E, Lea Co., NM
KB-3079'
Spudded 08/20/60
Completed 10/17/60

17-1/4" Hole.
13-3/8" casing @ 340'.
Set w/300 sxs cmt. Circ.

TOC @2162' (Calculated)

12-1/4" Hole.
9-5/8" casing @ 3150'.
Set w/1600 sxs cmt. Circ.

Blinebry Perfs @ 5099' to 5547'

Tubb/Drinkard Perfs @ 5837' to 5879'

CR @ 5920'

Montoya Perfs @ 7026' to 7050'

8-3/4" hole.
7" csg @ 7080' w/700 sxs cmt.

TD @ 8325'.

SOUTH JUSTIS UNIT "I" #24

LOCATION: 1650' FNL & 330' FWL (E), SEC. 30, T-25S, R-38E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: TEXACO

FORMER WELL NAME: HOBBS "A" #6

BLM TRACT NUMBER: 32 **API NUMBER:** 3002512432

SPUD DATE: 12/12/59

KB: 3079' GL: TD: 8325' PBTD: 5920'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			340'	300 sxs cmt, circ
9-5/8"			3150'	1600 sxs cmt, circ (TOC @ 2162'-Calc)
7"			7080'	700 sxs cmt

LOGS:

Date	Company	Log Name
7/29/59	Schlumberger	GR-N, IES, ML

DST's:

INITIAL COMPLETION: Dual-Blinebry 5373-5547', F/30/25, 1232 BO/0 BW/? MCF/F
Tubbs 5837-5879', A/500, F/18/14, 319 BO/0 BW/? MCF/F

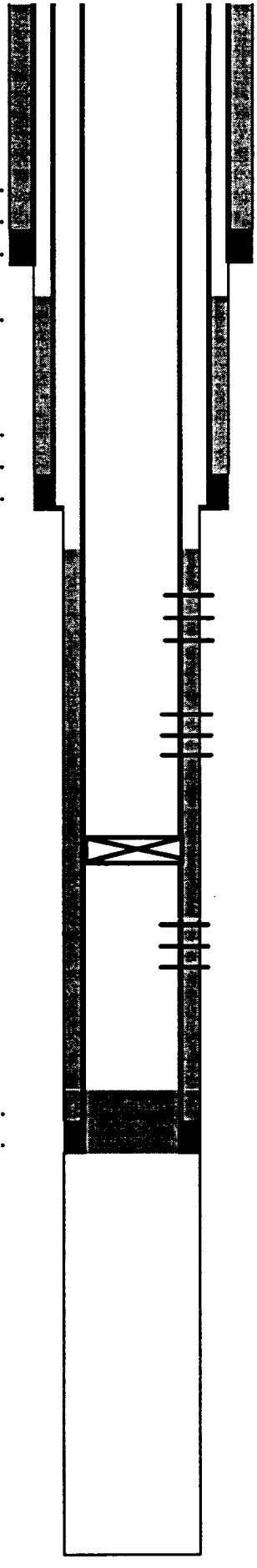
INITIAL COMPLETION DATE: 10/17/60

TREATMENTS AND WORKOVERS

1-69 Add Perf Blinebry 5099-5329'
Frac Blinebry 5099-5547', F/80/120
179 BO/6 BW/438 MCF/P

9-74 Downhole commingle Blinebry & Tubb-Drinkard 13 BO/33 BW/? MCF/P

WELLBORE SCHEMATIC



South Justis Unit I #25

(MW Petroleum State AJ #5)
2310' FSL & 330' FWL (L)
Sec.30, T-25S, R-38E, Lea Co., NM
KB-3084'
Spudded 11/13/59
Completed 01/08/60

17-1/2" Hole.
13-3/8" casing @ 300'.
Set w/250 sxs cmt. Circ.

TOC @ 2548' (Calculated).

12-1/4" Hole.
9-5/8" casing @ 3180'.
Set w/250 sxs cmt.

TOC @ 4194' (Calculated)

Paddock Perfs @ 4957' to 4989' Shut-In

Blinebry Perfs @ 5085' to 5546' Shut-In

CIBP @ 5640'

Sqzd Tubb/Drinkard Perfs @ 5808' to 5870'

8-3/4" hole.
7" csg @ 5950' w/250 sxs cmt.

PBD @ 5885'

TD @ 7123'.

SOUTH JUSTIS UNIT "I" #25

LOCATION: 2310' FSL & 330' FWL (L), SEC. 30, T-25S, R-38E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: MW PETROLEUM

FORMER WELL NAME: STATE "AJ" #5

BLM TRACT NUMBER: 33 **API NUMBER:** 3002512431

SPUD DATE: 11/13/59

KB: 3084' GL: 3085' TD: 7123' PBTD: 5640'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			300'	250 sxs cmt, circ
9-5/8"			3180'	250 sxs cmt, (TOC @ 2548'-Calc)
7"			5950'	250 sxs cmt, (TOC @ 4194'-Calc)

LOGS:

Date	Company	Log Name
12/12/59	Schlumberger	GR-N, ML, IES

DST's:

INITIAL COMPLETION: IP: Blinebry (5324-5546'), A/500, SOF 20,000, F 65 BO GOR 467
Tubb (5808-70'), A/5000, SOF 10,000, F 112 BO, GOR 396

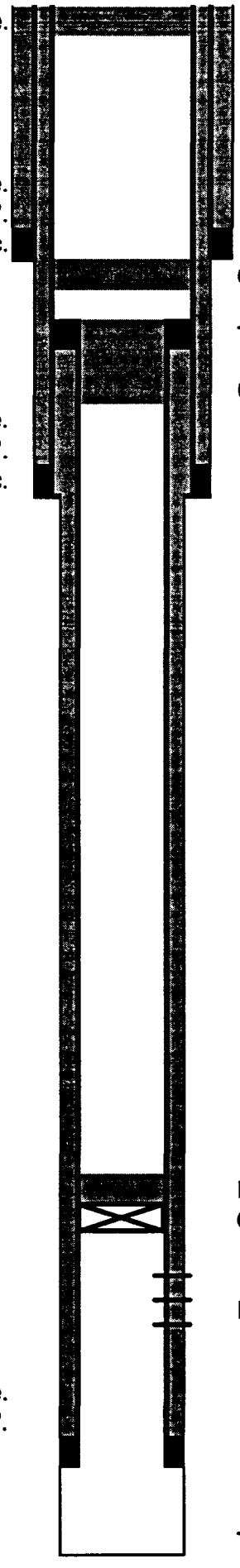
INITIAL COMPLETION DATE: 1/8/60

TREATMENTS AND WORKOVERS

Sqzd Tubb/Drinkard (5808-70') w/70 sxs. Set CIBP 5640'. F Blinebry w/40,000 gals GBW & 40,000# sd. Pumped 206 BO, 243 BW, 48 hrs.

2-80 Perf'd Paddock 4957-89', A/3000 gals. DHC Paddock & Blinebry (5085-5946'). Paddock and Blinebry SI 9 & 10, 1988

WELLBORE SCHEMATIC



Cmt Plug (5 sxs) @ Surface.

17-1/2" Hole.
13-3/8" casing @ 550'.
Set w/470 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3400'.
Set w/1400 sxs cmt. Circ.

8-3/4" hole.
7" liner @ 8336'.
Set w/1225 sxs cmt.

White Fang #1

Fina
456' FSL & 950' FWL (M)
Sec. 30, T-25S, R-38E, Lea Co., NM
KB-3066'
P&A'd 06/18/92

Cmt Plug (35 sxs) @ 600'

Top of Liner @ 2970'

Cmt Plug (25 sxs) @ 3010'

PBD @ 7865'
CIBP @ 7900' w/35 sxs cmt

Ellenburger Perfs 7932'-8305'.

TD @ 8925'.

WHITE FANG #1

LOCATION: 456' FSL & 950' FWL (M), SEC. 30, T-25S, R-38E
LEA COUNTY, NEW MEXICO

OPERATOR: FINA OIL & CHEMICAL COMPANY

BLM TRACT NUMBER: **API NUMBER:** 3002531514

SPUD DATE:

KB: 3066' GL: TD: 8925' PBTD: 7865'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			550'	470 sxs cmt, circ
9-5/8"			3400'	1400 sxs cmt, circ
7" Lnr			2970-8336'	1225 sxs cmt, circ

LOGS:

Date	Company	Log Name
2/23/92	Halliburton	Sonic, DIL, Spectral Density Dual Neutron

DST's:

1	Montoya	7060-7164'	Rec 500' gas & GCSW, 1276' SW, IF 3073-90, ISIP-1479, FF-464-769, FSIP-1733
2	Ellenburger	8336-8487'	Rec 60' SW, 575' oil, IF 121-114, ISIP-685, FF 113-179, FSIP-866
OH TEST	Ellenburger	8336-8925'	A/3780 gals

INITIAL COMPLETION: P&A

INITIAL COMPLETION DATE: 6/18/92

TREATMENTS AND WORKOVERS

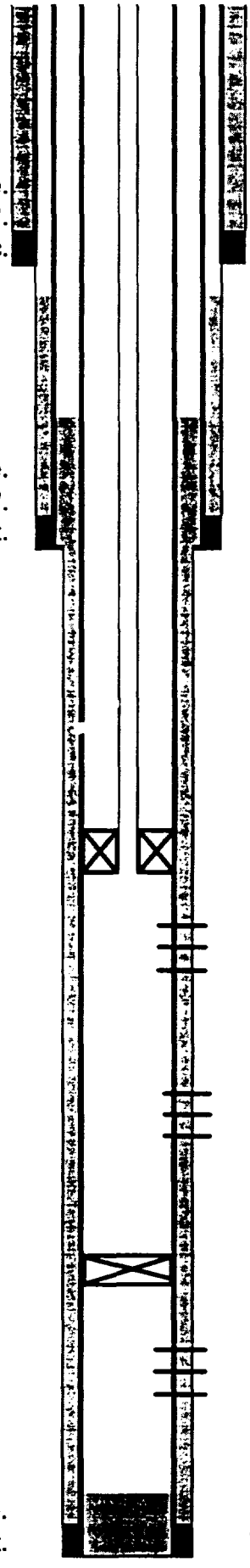
Perf'd 7932-8048' (158), 8100-8110' (22), 8183-8210' (36), 8290-8305' (16), Acidized w/4000 gals. Swabbed and pumped 113 BO & 547 BW in 64 days.

Set CIBP @ 7900' w/35 sxs cmt. Set 25 sxs cmt plug @ 3010'. Set 35 sxs cmt plug @ 600', Cut 13-3/8" & 9-5/8" (3' below surface). Set 5 sxs cmt plug @ surface.

P&A'd 6-18-92

Updated by LRH 9/2/92

WELLBORE SCHEMATIC



South Justis Unit I #260

(MW Petroleum State AJ #6)
330' FSL & 330' FWL (M)
Sec.30, T-25S, R-38E, Lea Co., NM
KB-3068'
Spudded 09/17/60
Completed 11/01/60

17-1/4" Hole.
13-3/8" casing @ 320'.
Set w/300 sxs cmt. Circ.

TOC @ 504' (Calculated)

TOC @ 2162' (Calculated)

12-1/4" Hole.
9-5/8" casing @ 3200'.
Set w/1600 sxs cmt.

2-3/8" PVC tubing @ 5000'
Otis Interlock Packer @ 5000'

Blinebry Perfs @ 5172' to 5330'

Proposed Perfs @ 5350' to 6100'

Proposed CIBP @ 6200'

Fusselman Perfs @ 6938' to 6954'

8-3/4" hole.
7" csg @ 7020' w/700 sxs cmt.

PBD @ 6986'
TD @ 7020'.

SOUTH JUSTIS UNIT "I" #260

LOCATION: 330' FSL & 330' FWL (M), SEC. 30, T-25S, R-38E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: MW PETROLEUM

FORMER WELL NAME: STATE "AJ" #6

BLM TRACT NUMBER: 33 **API NUMBER:** 3002512438

SPUD DATE: 9/17/60

KB: 3068' GL: 3054' TD: 7020' PBTD: 6986'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			320'	300 sxs cmt, circ
9-5/8"			3200'	1600 sxs cmt, (TOC @ 504' - Calc)
7"			7020'	700 sxs cmt, (TOC @ 2162' - Calc)

LOGS:

Date	Company	Log Name
10/13/60	Lane Wells	GR-N, IL-IES

DST's:

INITIAL COMPLETION: IP: Blinebry (5172-5330'), A/500, SOF 20,000/40,000, GOR 1436,
F 48 BO
Fusselman (6938-54'), A/1000, F 187 BO, 15 BW, GOR 328

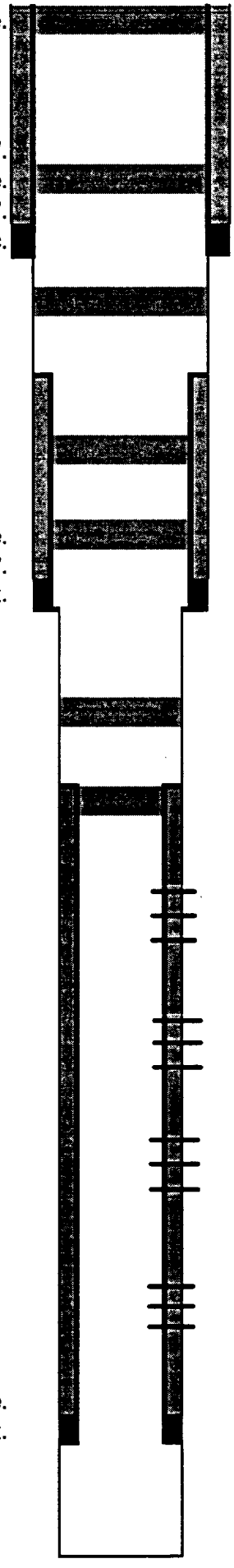
INITIAL COMPLETION DATE: 11/1/60

TREATMENTS AND WORKOVERS

10-63 A/Fuss w/3000 gals

4-65 A/Fuss w/1250 gals

WELLBORE SCHEMATIC



Cmt Plug (10 sxs) @ Surface.

Cmt Plug (30 sxs) @ 310'.
17-1/4" Hole.
13-3/8" casing @ 316'.
Set w/250 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 3170'.
Set w/250 sxs cmt.

8-3/4" hole.
4-1/2" csg @ 6150' w/600 sxs cmt.

State "AJ" #7

Amoco
660' FSL & 1650' FWL
Sec.30, T-25S, R-38E, Lea Co., NM
KB-3075'
Spudded 12/30/60
Completed 03/28/61
P&A'd 1962

Cmt Plug (25 sxs) @ 900'

Top of 9-5/8" csg @ 1786'

Cmt Plug (25 sxs) @ 2033'

Cmt Plug (25 sxs) @ 3167'

Cmt Plug (35 sxs) @ 3503'

Top of 4-1/2" csg @ 3925'
Cmt Plug (25 sxs) @ 3934'

Glorieta Perfs @ 5144' to 5155'

Blinebry Perfs @ 5390' to 5420'

Blinebry Perfs @ 5634' to 5778'

Tubb Perfs @ 5940' to 5970'

TD @ 7017'.

STATE "AJ" #7

LOCATION: 660' FSL & 1650' FWL , SEC. 30, T-25S, R-38E
LEA COUNTY, NEW MEXICO

OPERATOR: ARCO OIL AND GAS COMPANY

BLM TRACT NUMBER: **API NUMBER:** 3002512426

SPUD DATE: 12/30/60

KB: 3075' GL: TD: 7017' PBTD:

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			316'	250 sxs cmt, circ
9-5/8"			3170'	250 sxs cmt, circ
4-1/2"			6150'	600 sxs cmt,

LOGS:

Date	Company	Log Name

DST's:

INITIAL COMPLETION: P&A

INITIAL COMPLETION DATE: 3/28/61

TREATMENTS AND WORKOVERS

12-28-60	Location
1-3	Drlg 2433'
1-9	Drlg 3640'
1-16	Drlg 5395'
1-23	Drlg 6920'
1-30	TD 7071', PB 6090', MORT Perf 60/5940-70'
2-6	Tstg. Tr perfs 5940-70' w/3000 gals acid. Swbd 53 BLO + 62 BLW in 5 hrs. Swbd 25 BLO + 10 BLW + 5 BW in 5 hrs., swbd dry. Swbd 4 BLO + 4 BW in 3 hrs, swbd dry. Set BP @ 5850'.

STATE "AJ" #7

2-13 Swbd 28 BLO + 20 BLW/9 hrs, then swbd 2 BW & swbd dry, from perfs 5634-5778'. Set BP @ 5550', perf: 60/5390-5420', treated 500 gal AC, SF 20,000 gals + 40,000# sd, flwd 203 BLO/48 hrs (-450)

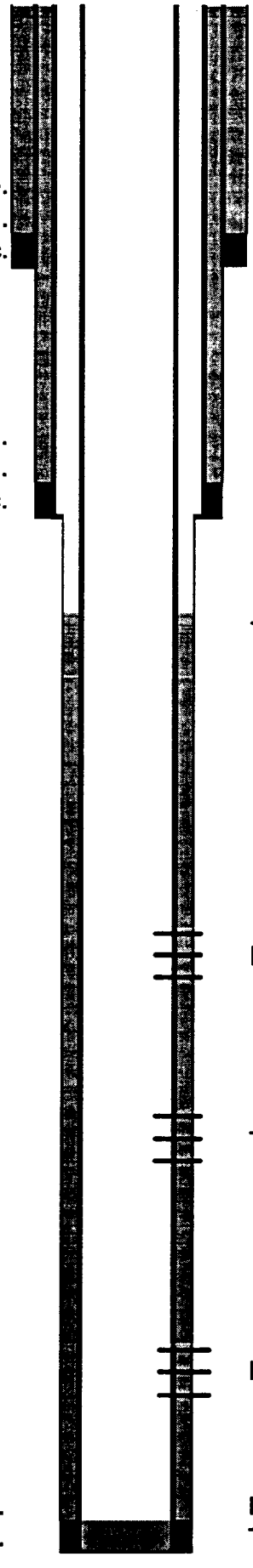
2-20 Swbg. Swbd 95 BLO + 11 BLW/10 hrs., swbd dry; swbd 8 BLO + 1 BLW/4 hrs., swbd dry; set BP @ 5250', Perf: 44/5144-55', treated 2000 gal AC, swbd 18 BLW & 86 BLO/6 hrs

2-27 Prep to P&A. Swbd 11 BW/2 hrs, Swbd dry; Swbd 1 BO & 29 BW/9 hrs

Plug and Abandonment operations were affected as follows:

1. Removed surface equipment, cut and pulled 3925' of 4-1/2" csg & 1786' of 9-5/8" csg
2. Spotted plug and filled intervals with heavy mud laden fluid
3. Erected PXA marker. Subsequent report will be filed upon final clean-up of pits and location.

WELLBORE SCHEMATIC



South Justis Unit I #27

(ARCO Ginsberg Federal #9)
330' FNL & 330' FWL (D)
Sec 31, T-25S, R-38E, Lea Co., NM
KB-3059'
Spudded 04/13/60
Completed 05/28/60

17-1/2" Hole.
13-3/8" casing @ 367'.
Set w/350 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 2262'.
Set w/900 sxs cmt. Circ.

TOC @ 3867' (Calculated)

Blinebry Perfs @ 5072' to 5527'

Tubb/Drinkard Perfs @ 5730' to 5870'

Fusselman Perfs @ 6934' to 6946'

8-3/4" hole.
7" csg @ 6958' w/440 sxs cmt.

PBD @ 6957'
TD @ 6958'.

SOUTH JUSTIS UNIT "I" #27

LOCATION: 330' FNL & 330' FWL (D), SEC. 31, T-25S, R-38E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: GINSBERG FEDERAL #9

BLM TRACT NUMBER: 29 **API NUMBER:** 3002512443

SPUD DATE: 4/13/60

KB: 3059' GL: 3049' TD: 6958' PBTD: 6957'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			367'	350 sxs cmt, circ
9-5/8"			2262'	900 sxs cmt, circ
7"			6958'	440 sxs cmt, (TOC @ 3867'-Calc)

LOGS:

Date	Company	Log Name
5/17/60	Schlumberger	Sonic, MLL, I-ES
1/8/85	Gearhart	GR

DST's:

1	4742-4867'	Glorieta	Op 1', rec 95' SGCDM, 30" ISIP-244, IFP-83, FFP 98, 30" FSIP-170
2	5985-6079'	Drinkard	Op 1', rec 80' SGCDM, 30" ISIP-641, IFP-91, FFP-92, FSIP-247
3	6924-6950'	Fusselman	Op 2' 15", GTS 2", rec 180' oil & GCM, 30" ISIP-2495, IFP-220, FFP-1196, 30" FSIP-2536

INITIAL COMPLETION: IP: Fusselman (6934-38', 41-46') A/500, F 96 BO

INITIAL COMPLETION DATE: 5/28/60

SOUTH JUSTIS UNIT "I" #27

TREATMENTS AND WORKOVERS

4-76	Perf'd Tubb/Drinkard 5730-5870', A/3000 gals
8-76	SWF Tubb/Drinkard, 45M gals, 60M# 20/40, 18M# 100 mesh
9-60	Blinebry perfs 16/5153-5337', SF 25,000 gals RO 55,000#, F 80 BO
1-85	New Blinebry perfs 5072-80', 5100-16', 5114-16'. Acidized Tubb 5730-5870' w/5000. Acidized Blinebry 5153-5527 w/10,000. Commingle B/T/Fuss

(Fusselman rights revert to Fina at unitization)

WELLBORE SCHEMATIC

South Justis Unit I #28

(ARCO Ginsberg Federal #11)
1815' FNL & 330' FWL (E)
Sec 31, T-25S, R-38E, Lea Co., NM
KB-3048'
Spudded 08/14/61
Completed 09/21/61

12-1/4" Hole.
9-5/8" casing @ 915'.
Set w/450 sxs cmt. Circ.

TOC @ 2350' by TS

Blinebry Perfs @ 5042' to 5448'

Top Packer @ 5450'

Top of 4-1/2" Liner @ 5527'

8-3/4" hole.
7" csg @ 5650' w/650 sxs cmt.

Tubb/Drinkard Perfs @ 5709' to 5843' (TA'd)

Bottom Packer @ 6810'

6-3/4" Hole.
4-1/2" Liner @ 6977'.
Set w/150 sxs cmt. Circ.

Fusselman Perfs @ 6938' to 6972'
PBD @ 6973'
TD @ 6977'.

SOUTH JUSTIS UNIT "I" #28

LOCATION: 1815' FNL & 330' FWL (E), SEC. 31, T-25S, R-38E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: GINSBERG FEDERAL #11

BLM TRACT NUMBER: 29 **API NUMBER:** 3002512445

SPUD DATE: 8/14/61

KB: 3048' GL: 3039' TD: 6977' PBTD: 6973'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
9-5/8"			915'	450 sxs cmt, circ
7"			5650'	650 sxs cmt, (TOC @ 2350'-TS)
4-1/2" Lnr			5527-6977'	150 sxs cmt, circ

LOGS:

Date	Company	Log Name
9/10/61	Schlumberger	Sonic, LL, MLL

DST's:

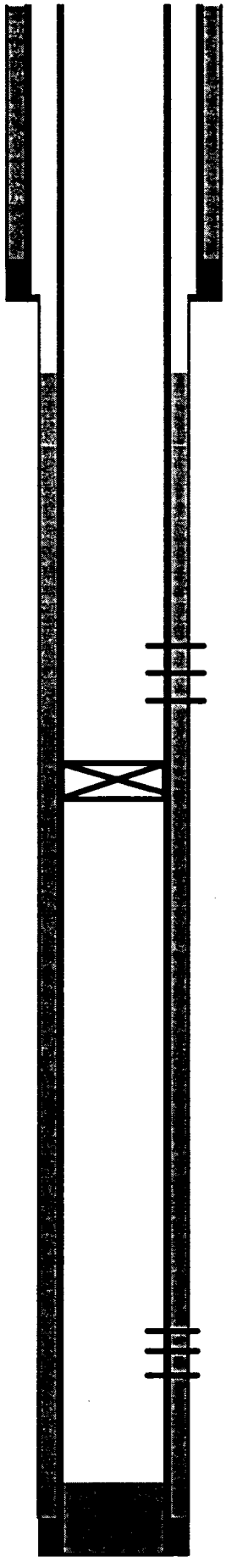
INITIAL COMPLETION: IP: Fusselman (6938-72'), A/500, F 120 BO, TP 150#
Tubb (5709-13', 5831-43'), A/500, F 72 BO,
Blinebry (5265-74', 5423-27', 5444-48') SF 22,000 gals, 45,000# sd, F 60 BO

INITIAL COMPLETION DATE: 9/21/61

TREATMENTS AND WORKOVERS

6-62	Acidized Fusselman/2500 gals
1-63	Add Blinebry Perfs 5042-83'. A/1000 gals, F/9750 gals GO & 2700# sd
3-64	Acidized Fusselman w/1500 gals
12-66	Tubb TA'd and isolated between pkrs @ 5450' & 6810'
9-83	Acidized Tubb/Drinkard w/2000 gals Acidized Blinebry w/5000 gals

WELLBORE SCHEMATIC



Ginsberg Federal #13

Fina
1980' FSL & 1650' FWL (K)
Sec. 31, T-25S, R-38E, Lea Co., NM
KB 3050'
Spudded 11/05/65
Completed 12/21/65

11" hole.
8-5/8" casing @ 982'.
Set w/650 sxs cmt. Circ.

TOC @ 3424' (Calculated)

Langlie Mattix Perfs @ 3291' to 3325'

RBP @ 3456'

Blinebry Perfs @ 5327' to 5449'

8-3/4" hole.
5-1/2" csg @ 5690'.
Set w/542 sxs cmt.

PBD @ 5647'
TD @ 5700'.

GINSBERG FEDERAL #13

LOCATION: 1980' FSL & 1650' FWL (K), SEC. 31, T-25S, R-38E
LEA COUNTY, NEW MEXICO

OPERATOR: FINA

BLM TRACT NUMBER: **API NUMBER:** 3002521616

SPUD DATE: 11/5/65

KB: 3050' GL: 3039' TD: 5700' PBTD: 5647'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"			982'	650 sxs cmt, circ
5-1/2"			5690'	542 sxs cmt, (TOC @ 3424'-Calc)

LOGS:

Date	Company	Log Name
11/24/65	Lane Wells	Sonic

DST's:

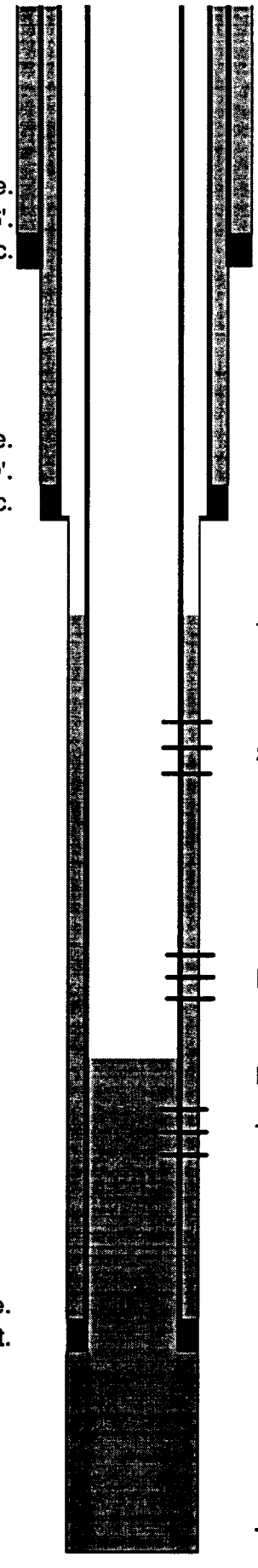
INITIAL COMPLETION: IP: Langlie-Mattix (3291-3325') F/20,000 gals oil Blinebry (5327-5449'), SCF 32,000/36,000, P 30 BO, 30 BW, 30,000# sd. P 24 BO & 72 BW

INITIAL COMPLETION DATE: 3/18/60

TREATMENTS AND WORKOVERS

8-80 Set RBP @ 3456'. Single Langlie-Mattix producer.

WELLBORE SCHEMATIC



South Justis Unit I #29

(ARCO Ginsberg Federal #10)
1980' FSL & 330' FWL (L)
Sec 31, T-25S, R-38E, Lea Co., NM
KB-3048'
Spudded 09/10/60
Completed 10/19/60

17-1/4" Hole.
13-3/8" casing @ 226'.
Set w/250 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 2280'.
Set w/1200 sxs cmt. Circ.

TOC @ 3751' (Calculated)

Sqzd Paddock Perfs @ 4926' to 4940'

Blinebry Perfs @ 5238' to 5493'

PBD @ 5600'

Tubb/Drinkard Perfs @ 5769' to 5824'

8-3/4" hole.
7" csg @ 6034' w/325 sxs cmt.

TD @ 7095'.

SOUTH JUSTIS UNIT "I" #29

LOCATION: 1980' FSL & 330' FWL (L), SEC. 31, T-25S, R-38E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: GINSBERG FEDERAL #10

BLM TRACT NUMBER: 29 **API NUMBER:** 3002512444

SPUD DATE: 9/10/60

KB: 3048' GL: 3025' TD: 7095' PBTD: 5600'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			226'	250 sxs cmt, circ
9-5/8"			2280'	1200 sxs cmt, circ
7"			6034'	325 sxs cmt, (TOC @ 3751'-Calc)

LOGS:

Date	Company	Log Name
10/6/60	Schlumberger	Sonic, IES, ML

DST's:

1	Tubb/Drinkard	5754-5885'	Op 2', GTS-90", rec 30' oil, 90' HO&GCM, 30" ISIP-1093, IFP-104, FFP-104, 30" FSIP-627
2	Montoya	6948-7000'	Op 2', rec 70' SGCDM, 30" ISIP-495, IFP-45, FFP-70, 30" FSIP-240
3	Fusselman	7050-95'	Op 2', rec 100' SWCM & 2000' SW, 30" ISIP-2600, IFP-205, FFP-955, 30" FSIP-2380'

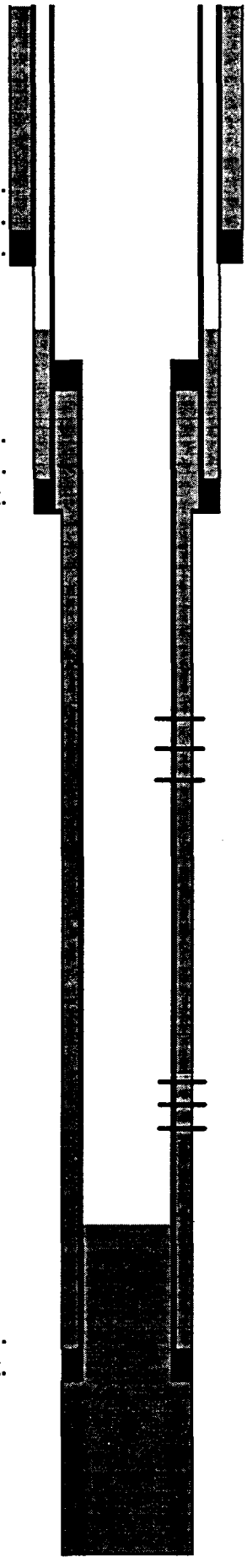
INITIAL COMPLETION: IP: Blinebry (5238-5493') A/1000, SF 20,000 gals, 60,000# sd. F 384 BO, FTP 500#

INITIAL COMPLETION DATE: 10/19/60

TREATMENTS AND WORKOVERS

Tubb/Drinkard Perfs:	30/5769-84', 30/5809-24. A/4000, Dry. PB-5600 w/50 sx Sqzd Paddock perfs 4926-40'
7-91	Repaired csg leak. Perf'd at 3000'. Set RBP @ 4885'. Sqzd perfs w/600 sxs circ., 150 sx. CO to 3055'. Tested csg to 500#

WELLBORE SCHEMATIC



South Justis Unit I #30

(ARCO Ginsberg Federal #8)
660' FSL & 660' FWL (M)
Sec 31, T-25S, R-38E, Lea Co., NM
KB-3041'
Spudded 06/13/56
Completed 07/03/56

15" Hole.
10-3/4" casing @ 1223'.
Set w/500 sxs cmt. Circ.

TOC @ 2542' (Calculated)
Top of 4-1/2" Liner @ 3310'

8-3/4" Hole.
7" casing @ 3332'.
Set w/150 sxs cmt.

Langlie Mattix Perfs @ 3214' to 3290'

Blinebry Perfs @ 5122' to 5410'

PBD @ 5418'

6-3/4" hole.
4-1/2" Liner @ 5800' w/429 sxs cmt.

TD @ 5920'.

SOUTH JUSTIS UNIT "I" #30

LOCATION: 660' FSL & 660' FWL (M), SEC. 31, T-25S, R-38E
LEA COUNTY, NEW MEXICO

FORMER OPERATOR: ARCO OIL AND GAS COMPANY

FORMER WELL NAME: GINSBERG FEDERAL #8

BLM TRACT NUMBER: 29 **API NUMBER:** 3002512442

SPUD DATE: 6/13/56

KB: 3041' GL: 3028' TD: 5920' PBTD: 5418'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
10-3/4"			1223'	500 sxs cmt, circ
7"			3332'	150 sxs cmt, (TOC @ 2542'-Calc)
4-1/2" Lnr			3310-5800'	429 sxs cmt

LOGS:

Date	Company	Log Name
6/27/56	Schlumberger	GR-N
11/21/61	Schlumberger	Sonic, LL
1/11/84	CPI	GR-CCL

DST's:

INITIAL COMPLETION: IP: Langlie Mattix (3260-68', 76-90'), A/500 SOF 10,000 F 525 BO,TP 390#, CP 790#, GOR 503, 265 MCFD on 18/64" ck

INITIAL COMPLETION DATE: 7/3/56

TREATMENTS AND WORKOVERS

(Langlie Mattix rights revert to Fina at unitization)

9-29-59 Perf'd LM 3214-20', 34-38', 50-52', SOF 22M gals, 107M#

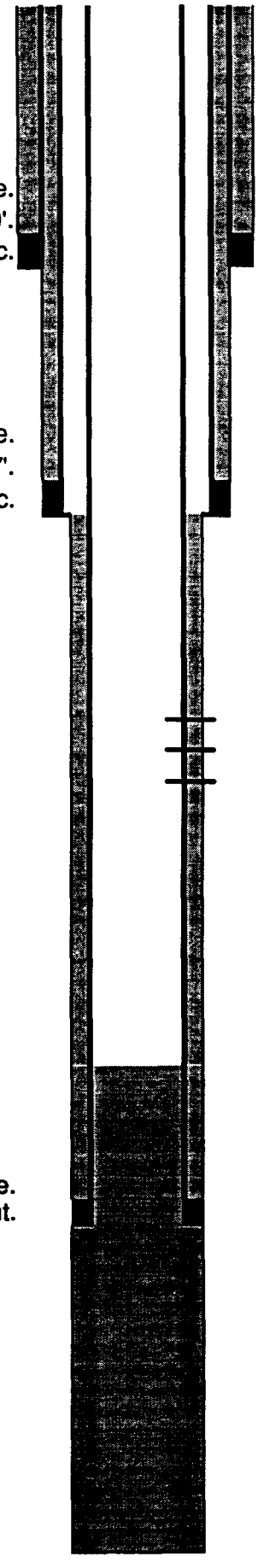
11-61 Deepened from 3332' to 5920', 5418' PB. Set 4-1/2" 9.5# liner 3310-5800' w/354 sx. Blinebry Perfs 32/5122-30', 36/5148-57', 28/5172-79', 24/5266-72', 24/5404-10', SF 21,420 gals, 35,000#, IP F 288 BO, 600# TP

4-63 SOF LM w/20M gals, 22M# IPP 30 BOPD

SOUTH JUSTIS UNIT "I" #30

12-74	TA'd Blinebry
11-75	Returned Blinebry to production
1-84	CO to 5379'. Ran CCL 3050-5373'. Perf'd Blinebry LM. A/Blinebry w/15M gals. A/LM - 10M gals. Both went on vacuum. Blinebry & LM commingled downhole.

WELLBORE SCHEMATIC



M. D. Self #5

Maralo
330' FNL & 330' FWL (D)
Sec. 6, T-26S, R-38E, Lea Co., NM
KB-3046'
Spudded 01/17/62
Completed 02/28/62

17-1/4" Hole.
13-3/8" casing @ 330'.
Set w/450 sxs cmt. Circ.

12-1/4" Hole.
9-5/8" casing @ 2367'.
Set w/1200 sxs cmt. Circ.

TOC @ 2452' (Calculated)

Blinebry Perfs @ 5114' to 5325'

PBD @ 5400'

8-3/4" hole.
5-1/2" csg @ 6005' w/850 sxs cmt.

TD @ 7563'.

M. D. SELF #5

LOCATION: 330' FNL & 330' FWL (D), SEC. 6, T-26S, R-38E
LEA COUNTY, NEW MEXICO

OPERATOR: ARCO OIL AND GAS COMPANY

BLM TRACT NUMBER: **API NUMBER:** 3002512449

SPUD DATE: 1/17/62

KB: 3046' GL: 3035' TD: 7563' PBTD: 5400'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
13-3/8"			330'	450 sxs cmt
9-5/8"			2367'	1200 sxs cmt, circ
5-1/2"			6005'	850 sxs cmt (TOC @ 2452' - Calc)

LOGS:

Date	Company	Log Name
2/19/62	Schlumberger	Sonic, LL, MLL

DST's:

INITIAL COMPLETION: Blinebry (5114-5325') A/3000, F/20,000 gals and 20,000# Sd, F/240 BO, TP 550#

INITIAL COMPLETION DATE: 2/28/62

TREATMENTS AND WORKOVERS

WELLBORE SCHEMATIC

M. D. Self #6

Maralo
1750' FNL & 330' FWL (E)
Sec. 6, T-26S, R-38E, Lea Co., NM
KB 3043'
Spudded 03/08/62
Completed 04/01/62

11" hole.
8-5/8" casing @ 979'.
Set w/550 sxs cmt. Circ.

TOC @ 1737' (Calculated)

Blinebry Perfs @ 5178' to 5377'

8-3/4" hole.
5-1/2" csg @ 5499'.
Set w/900 sxs cmt.

PBD @ 5499'
TD @ 5500'.

M. D. SELF #6

LOCATION: 1750' FNL & 330' FWL (E), SEC. 6, T-26S, R-38E
LEA COUNTY, NEW MEXICO

OPERATOR: MARALO

BLM TRACT NUMBER: **API NUMBER:** 3002512450

SPUD DATE: 3/8/62

KB: 3043' GL: 3034' TD: 5500' PBTD: 5499'

CASING RECORD:

Size	Wt	Grade	Depth	Cementing Record
8-5/8"			979'	550 sxs cmt, circ
5-1/2"			5499'	900 sxs cmt, (TOC @ 1737'-Calc)

LOGS:

Date	Company	Log Name
3/28/62	Schlumberger	Sonic, LL, MLL

DST's:

INITIAL COMPLETION: Blinebry (5178-5377'), A/1000, SF/20,000/20,000
Flwd 219 BO, TP 490#, Gravity 37.4°

INITIAL COMPLETION DATE: 4/1/62

TREATMENTS AND WORKOVERS

Producing Intervals: 16/5178-86', 4/5209-11', 6/5226-29', 4/5239-41', 4/5253-55', 6/5322-25', 16/5369-77'

EXHIBIT VII

EXHIBIT VII

DATA ON PROPOSED OPERATION OF SOUTH JUSTIS UNIT

1. Proposed average and maximum daily rate and volume of fluids to be injected:

   Average Daily Rate of 500 BWPD
   Maximum Daily Rate of 1000 BWPD

2. System is closed.

3. Proposed average and maximum injection pressures:

   Average Injection Pressure of 600 psi
   Maximum Injection Pressure of 1100 psi*

4. The source of injection fluids will be from two new San Andres water supply wells, (SJU Tract "B" #191 and SJU Tract "C" #211), a recompleted well in the San Andres (the Wimberly WN #6 (SJU Tract "E" #191)), and from existing Blinebry and Tubb/Drinkard producers.

5. The make-up water from the San Andres formation to be used as injection fluid is compatible with the produced water from the Unit wells. Water from Chevron's Stuart Langlie-Mattix Unit #111 is typical Grayburg-San Andres water which is compatible with water produced from the Blinebry and Tubb/Drinkard.

*Until a fracture gradient is determined, maximum injection pressure will be based on a .2 psi/foot gradient.

P. O. BOX 1468
MONAHANS, TEXAS 79756
PH 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

TO: Mr. Ken Sherman
P. O. Box 1710, Hobbs, NM 88240

LABORATORY NO. 791237
SAMPLE RECEIVED 7-25-91
RESULTS REPORTED 7-30-91

COMPANY ARCO Oil & Gas Company LEASE As Listed
FIELD OR POOL Justis
SECTION ___ BLOCK ___ SURVEY ___ COUNTY Lea STATE NM
SOURCE OF SAMPLE AND DATE TAKEN:
NO. 1 Produced water - taken from Chevron's Stuart Langlie-Mattix #111.
NO. 2 Produced water - taken from Wimberly #9. 7-25-91
REMARKS: 2. Blinebry

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	me/l	NO. 2	me/l
Specific Gravity at 60° F.	1.0040		1.0855	
pH When Received	6.68		7.34	
Carbonate as CO_3	0	0.0	0	0.0
Bicarbonate as HCO_3	1,122	18.4	512	8.4
Supersaturation as $CaCO_3$				
Undersaturation as $CaCO_3$				
Total Hardness as $CaCO_3$	2,150		16,000	
Calcium as Ca	592	29.6	4,960	248.0
Magnesium as Mg	163	13.4	875	72.0
Sodium and/or Potassium	1,688	73.4	41,657	1,811.2
Sulfate as SO_4	1,341	27.9	1,920	39.9
Chloride as Cl	2,486	70.1	73,860	2,082.9
Iron as Fe	5.0	0.2	0.29	0.0
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	7,392		123,784	
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen				
[illegible] Sulfide - Total	689		16.0	
Resistivity, ohms/m at 77° F.	0.910		0.081	
Suspended Oil				
Results Reported As Milligrams Per Liter				
Additional Determinations And Remarks				

Form No. 2

By ___

P O BOX 1468
MONAHANS, TEXAS 79756
PH 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

709 W INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

LABORATORY NO. 791237 (Page 2)

TO: Mr. Ken Sherman
P. O. Box 1710, Hobbs, NM 88240

SAMPLE RECEIVED 7-25-91
RESULTS REPORTED 7-30-91

COMPANY ARCO Oil & Gas Company LEASE As Listed
FIELD OR POOL Justis
SECTION ___ BLOCK ___ SURVEY ___ COUNTY Lea STATE NM
SOURCE OF SAMPLE AND DATE TAKEN:

NO. X3 Produced water - taken from Wimberly #11. 7-25-91

NO. X4 Produced water - taken from Carlson "A" Federal #2. 7-25-91

REMARKS: 3. Tubb/Drinkard 4. Blinebry/Tubb

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	me/l	NO. 2	me/l
Specific Gravity at 60° F.	1.0877		1.1055	
pH When Received	7.63		7.24	
Carbonate as CO_3	0	0.0	0	0.0
Bicarbonate as HCO_3	488	8.0	470	7.7
Supersaturation as $CaCO_3$				
Undersaturation as $CaCO_3$				
Total Hardness as $CaCO_3$	20,000		25,500	
Calcium as Ca	5,840	292.0	7,000	350.0
Magnesium as Mg	1,312	108.0	1,944	160.0
Sodium and/or Potassium	40,714	1,770.0	48,692	2,117.0
Sulfate as SO_4	1,887	39.2	1,721	35.8
Chloride as Cl	75,280	2,122.9	91,615	2,583.5
Iron as Fe	0.22	0.0	2.0	0.1
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	125,521		151,442	
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen				
~~Hydrogen~~ Sulfide - Total	48.0		133	
Resistivity, ohms/m at 77° F.	0.080		0.069	
Suspended Oil				

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks A careful study of the waters involved herein has revealed no evidence of any incompatibility that would be expected to result from the mixing of these waters in any combination. This is to say that we have identified no evidence to suggest there would be any precipitation or scaling potential as a result of combining any two or more of these waters in any proportion. Contact us for any additional assistance in this matter.

Form No. 2

cc: Mr. Dick Prentice, Midland
Mr. Marlin Roberson, Midland
Ms. Holly Brewer, Hobbs, NM
Mr. S. M. Bucaram, Plano
Mr. Mark Wilson, Dallas
Central File System, Midland

By _____
Waylan C. Martin, M.A.

EXHIBIT VIII

EXHIBIT VIII

GEOLOGICAL REVIEW
PROPOSED SOUTH JUSTIS UNIT
LEA COUNTY, NEW MEXICO

The Justis Field straddles a north-south trending, doubly plunging anticline which is approximately 9 miles long and 2 miles wide. Although the field has a structural closure, stratigraphic interfingering of reservoir and non-reservoir rock is the dominant trapping mechanism. Producing horizons in the Justis Field include the Ellenburger, McKee, Montoya, Fusselman, Tubb/Drinkard, Blinebry and Glorieta formations. The formations of interest are the Tubb/Drinkard and Blinebry formations. Depositionally, the formations present in Justis Field are similar to 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 proposed South Justis Unit is located approximately 2 miles east of Jal, New Mexico.

Fresh water zones within the proposed expansion area boundaries 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 dune sands and sands filling channels or 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 proposed expansion areas, the Chinle is at a depth of approximately 50 feet. At the south end, the Santa Rosa is at 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.

For the protection of all fresh water zones within the unit boundary, cement will be circulated to surface around casing on all new injection wells.

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

EXHIBIT IX

EXHIBIT IX

PROPOSED STIMULATION PROGRAM FOR TYPICAL INJECTION WELL
SOUTH JUSTIS UNIT
LEA COUNTY, NEW MEXICO

It is proposed to selectively perforate (cased hole) the interval from approximately ± 5100' to ± 6100' and open this interval by acidizing with approximately 20,000 gallons of 15% HCl acid. Depending on injectivity of the wells, small fracture treatments may be used to further stimulate the formation.

EXHIBIT X

EXHIBIT X

LOGGING & TEST DATA FOR PROPOSED INJECTIONS

New Wells

As new wells are drilled, logs will be filed with the New Mexico Oil Conservation Division.

Conversions

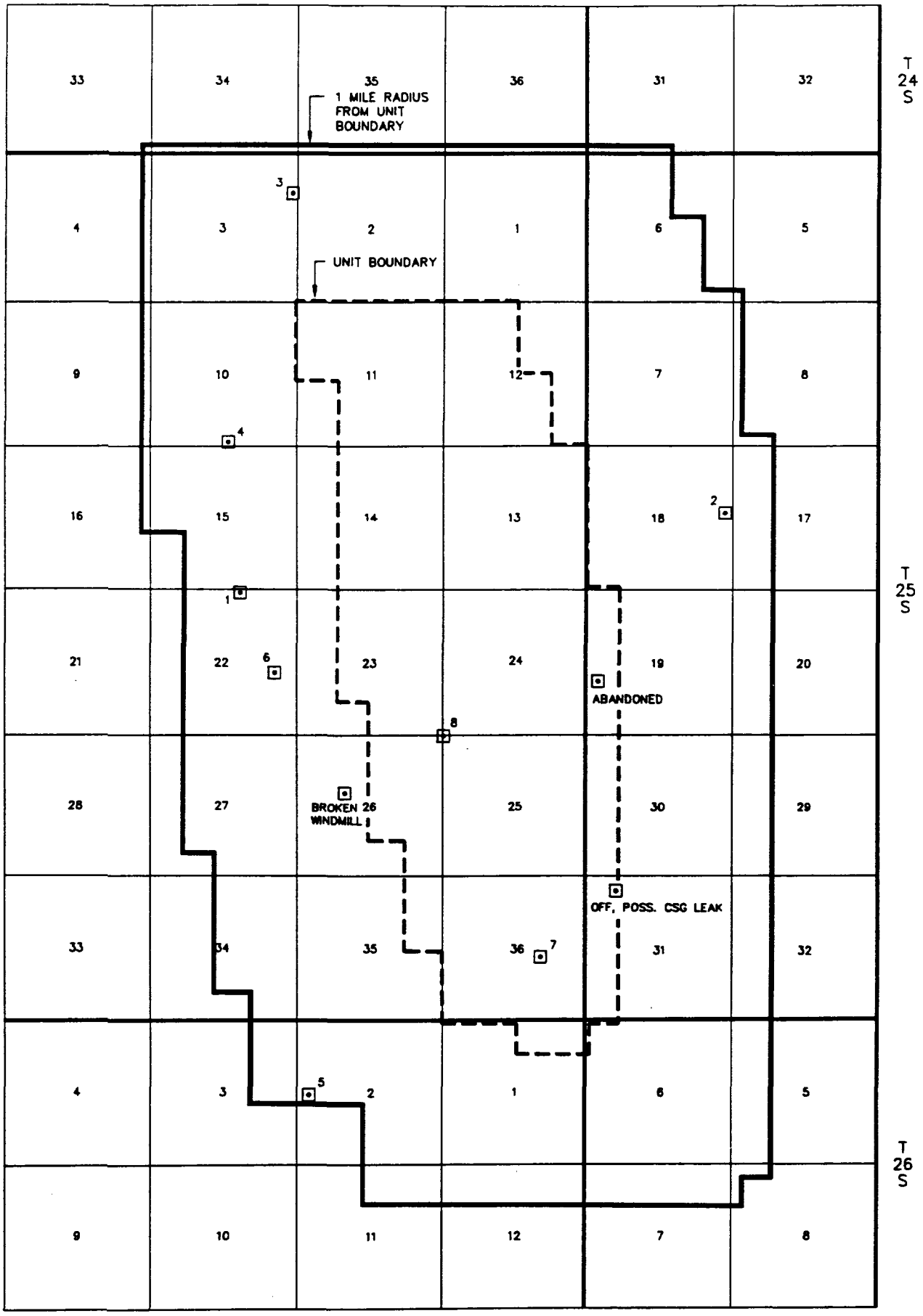
See Exhibit III-C for log and test data from wells planned for conversion.

EXHIBIT XI

EXHIBIT XI

MAP & CHEMICAL ANALYSES OF FRESH WATER WELLS ONE MILE OF PROPOSED UNIT

The attached map shows the location of eleven (11) fresh water wells within a mile of the proposed unit boundary. Water samples from eight of these wells were analyzed and the results are attached.



ARCO Oil and Gas Company

Central District Midland, Texas

SOUTH JUSTIS UNIT

Lea Co., New Mexico

FRESH WATER SAMPLE POINTS

P. O. BOX 1468
MONAHANS, TEXAS 79756
PH. 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

TO: Mr. Mark Earl
P. O. Box 1710, Hobbs, NM 88240

LABORATORY NO. 89231
SAMPLE RECEIVED 8-7-92
RESULTS REPORTED 8-11-92

COMPANY ARCO Oil & Gas Company LEASE
FIELD OR POOL
SECTION BLOCK SURVEY COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN: Well Reference No.

NO. 1 Raw water - taken from Sandy Adams water well (section 22). 8-7-92 1
NO. 2 Raw water - taken from Blocker water well (section 18). 8-7-92 2
NO. 3 Raw water - taken from R. Doom water well (section 3). 8-7-92 3
NO. 4 Raw water - taken from Nadine Owen water well (section 10). 8-7-92 4

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0017	1.0022	1.0030	1.0033
pH When Sampled				
pH When Received	7.08	7.09	7.08	7.16
Bicarbonate as HCO_3	249	283	695	190
Supersaturation as $CaCO_3$				
Undersaturation as $CaCO_3$				
Total Hardness as $CaCO_3$	400	480	710	1,040
Calcium as Ca	109	124	188	292
Magnesium as Mg	31	41	58	75
Sodium and/or Potassium	75	237	281	231
Sulfate as SO_4	263	425	0	697
Chloride as Cl	61	227	533	469
Iron as Fe	0.07	0.11	21.1	0.07
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	788	1,338	1,756	1,954
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,				
Hydrogen Sulfide	0.0	0.0	0.0	0.0
Resistivity, ohms/m at 77° F.	9.98	5.38	4.00	3.36
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Nitrate, as N	1.2	1.4	0.0	2.6

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks

Form No. 3

By

P. O. BOX 1468
MONAHANS, TEXAS 79756
PH. 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

TO: Mr. Mark Earl
P. O. Box 1710, Hobbs, NM 88240

LABORATORY NO. 89231 (Page 2)
SAMPLE RECEIVED 8-7-92
RESULTS REPORTED 8-11-92

COMPANY ARCO Oil & Gas Company LEASE

FIELD OR POOL

SECTION BLOCK SURVEY COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

		Well Reference No.
NO. 1	Raw water - taken @ Willis Ranch house water well. 8-5-92	5
NO. 2	Raw water - taken @ Willis Ranch water well (section 22). 8-5-92	6
NO. 3	Raw water - taken @ Willis Ranch water well (section 36). 8-5-92	7
NO. 4	Raw water - taken @ section 24 water well. 8-7-92	8

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES

	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0020	1.0033	1.0020	1.0036
pH When Sampled				
pH When Received	7.18	7.17	7.21	7.07
Bicarbonate as HCO_3	215	273	224	181
Supersaturation as $CaCO_3$				
Undersaturation as $CaCO_3$				
Total Hardness as $CaCO_3$	350	690	580	1,580
Calcium as Ca	96	180	168	448
Magnesium as Mg	27	58	39	112
Sodium and/or Potassium	99	291	129	218
Sulfate as SO_4	204	325	44	1,004
Chloride as Cl	125	540	447	611
Iron as Fe	0.04	0.04	0.07	11.7
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	765	1,667	1,052	2,573
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,				
Hydrogen Sulfide	0.0	0.0	0.0	0.0
Resistivity, ohms/m at 77° F.	9.65	3.86	5.60	2.57
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Nitrate, as N	2.4	1.2	1.9	1.0

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks: The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

Form No. 3

By Waylan C. Martin, M.A.

cc: Central File System, Midland

EXHIBIT XII

EXHIBIT XII

GEOLOGIC STATEMENT
PROPOSED SOUTH JUSTIS UNIT
LEA COUNTY, NEW MEXICO

ARCO Oil and Gas Company 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.

PROPOSED SOUTH JUSTIS UNIT

TECHNICAL COMMITTEE REPORT

JUSTIS BLINEBRY AND JUSTIS TUBB/DRINKARD FIELDS

LEA COUNTY, NEW MEXICO

BEFORE EXAMINER CATANACH
OIL CONSERVATION DIVISION
ARCO EXHIBIT NO. 20
CASE NO. 10552, 10553, 10554

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INTRODUCTION

Efforts to unitize the Justis Blinebry and Justis Tubb/Drinkard Fields in southeastern Lea County, New Mexico, for the purpose of conducting waterflood operations, have been ongoing since 1984. A Technical Committee was formed and elected to hire a local consulting firm, T. S. Hickman and Associates, to conduct a feasibility study of secondary recovery operations in the Justis fields. The Hickman report was published in August 1987 and Hickman recommended forming two units, the North Justis Unit and the South Justis Unit. Based on that recommendation, ARCO announced in February 1988 its intention to expedite the formation of the proposed South Justis Unit. A meeting with working interest owners was held in March 1988 and a five-part charge to the Technical Committee was approved. Since that time, ARCO has conducted a study to supplement the Hickman feasibility study and to address the charges made to the Technical Committee.

The Technical Report for the proposed South Justis Unit is attached. The geological characteristics of the Blinebry and Tubb/Drinkard are similar due to similar depositional environments. The major differences are that the Blinebry is 200' thicker than the Tubb/Drinkard and covers a broader area than the Tubb/Drinkard. Correlating individual zones on logs from both reservoirs proved to be very difficult over two to three 40-acre well locations. As is typical with other carbonate reservoirs, individual pay members are continuous only over limited distances.

A data base was established with yearly production statistics from 1957 through 1989 for each well completed in the Justis Blinebry and Justis Tubb/Drinkard. The plots generated from the data base helped address questions such as water and gas production from the Blinebry. No evidence of a strong water drive exists in the Blinebry although cumulative water production exceeds 15 MMBW. Approximately 12% of the wells located along the western and southern edges of the structure have recovered 40% of the water but only 16% of the oil. The evidence suggests that a weak edge water drive exists in some zones, but that flooding operations will not be adversely affected.

The Blinebry has produced approximately 12 BCFG more than the volumetrically calculated original gas in place. A data base of production statistics for the overlying Justis Glorieta gas wells was created. Plots based on this data indicate that some Blinebry wells which were perforated between 5000' and 5100' may have been influenced by wellbore communication with the Glorieta.

Seven nearby Clearfork waterfloods that are well documented have been surveyed. The compiled data became the basis for reserve recovery estimates and production forecasts under two development plans. The expected secondary to primary ratio (S/P) for 80-acre line drive development is 0.85:1 and the reserve estimate is 22 MMBO. The S/P ratio for 40-acre five-spot development is 1.15:1 and the overall reserve estimate is 34 MMBO. Flooding with 80-acre line drive patterns is characterized by low total injectivity, delayed responses, a low peak rate that does not occur for more than 20 years after injection begins, high operating costs, and marginal economics. Infill drilling to 20 acres and flooding with 40-acre five-spots is characterized by higher unit injectivity, quicker response time, a higher peak rate, a higher initial rate due to the recovery of additional primary reserves, and more favorable economics.

The two development plans require capital investments of $34.0MM ($1.55/BO) for 80-acre line drive patterns and $69.7MM ($2.05/BO) for 40-acre five-spots. Generic AFIT project economics for the 80-acre line drive development show a present worth discounted at 10% of -$13.8MM. For the 40-acre five-spot plan, the PW_{10} is $44.6MM. The development plans utilized by most of the operators of other Clearfork floods include infill drilling to 20-acre spacing.

A table of possible participation parameters is included in this study. Insufficient tract working interest ownership data has been received to generate accurate participation parameters by working interest owner.

CHARGE TO THE TECHNICAL COMMITTEE

PROPOSED SOUTH JUSTIS UNIT

A. Prepare a map of the proposed Unit Area with boundary lines showing each tract in the Unit.

B. Define the Unitized interval with a description of the upper and lower limits of the interval and with specific log markers from a certain well log adequately referenced.

C. Develop an improved recovery plan for the area along with the economics of such a plan for presentation to the Working Interest Owners.

D. Prepare a tabulation of values of the following parameters under the plan presented for each tract. The tract parameter values will be used for negotiating a Tract Participation Formula.

1. Cumulative oil and gas production
2. Current oil and gas production
3. Remaining primary oil and gas reserves
4. Improved recovery oil reserves
5. Other parameters deemed necessary by the Technical Committee

E. Investigate and evaluate any other factors pertinent to allowing an improved recovery program to be carried out for the area.

AGREE:_____

NAME:_____

COMPANY:_____

DATE:_____

CONCLUSIONS

1. The Justis Tubb/Drinkard reservoir has similar porosity and permeability characteristics to the Justis Blinebry reservoir due to similar depositional environments. The major differences between the two are that the Blinebry is a thicker reservoir and has a greater areal extent than the Tubb/Drinkard.

2. The stratigraphy of the Blinebry and Tubb/Drinkard is a complex sequence of interfingering reservoir and non-reservoir dolomitic rock units. The reservoir units are generally discontinuous laterally between two to three 40-acre well locations. No evidence exists to support systematic vertical permeability.

3. The Justis Blinebry and Justis Tubb/Drinkard reservoirs originally contained approximately 207,950 MBO in the proposed South Justis Unit area. Through December 31, 1989, the cumulative production from these reservoirs was 28,693.8 MBO, 176,373.3 MMCFG, and 18,776.6 MBW.

4. Approximately 1668 MBO of primary reserves remain to be recovered from the Justis Blinebry and the Justis Tubb/Drinkard reservoirs. The ultimate primary recovery is 30,361 MBO, or 14.6% of the original oil in place (OOIP).

5. The cumulative water production from the Justis Blinebry area was 15,734.0 MBW through December 31, 1989. The 18 wells with the highest Blinebry water recoveries comprise 12% of all Blinebry wells and have recovered 40% of the water but only 16% of the oil. A partial edge water drive may exist along the southern and western flanks of the Blinebry structure, but it is not expected to adversely impact flooding operations.

6. The cumulative gas production from the Justis Blinebry through December 31, 1989 was 138.3 BCF and exceeds the volumetrically calculated original gas in place (OGIP) of 126.6 BCF. Evidence suggests that some wells completed near the top of the Blinebry may have communicated with the overlying Justis Glorieta gas field.

7. A study of seven mature and well-documented Clearfork waterfloods provides a basis to estimate reserves associated with various spacing densities and also a means to time rate the reserve recovery for economic evaluations.

8. The proposed South Justis Unit is quite similar to the other Clearfork waterflood projects reviewed, particularly Mobil's Russell (Clearfork 7000') Unit in Gaines County, Texas.

9. The expected secondary to primary ratio associated with flooding on 40-acre spacing is 0.85:1 and the secondary reserves are 22 MMBO.

10. The expected secondary to primary ratio associated with flooding on 20-acre spacing is 1.15:1 and the total recovery is expected to be 34 MMBO.

11. The estimated costs to develop the proposed South Justis Unit on 80-acre and 40-acre patterns are $34,035M ($1.55/BO) and $69,737M ($2.05/BO), respectively.

12. Due to low total injectivities and long response times, the economics of flooding on 80-acre patterns are unprofitable.

13. Infill drilling and flooding on 40-acre patterns is expected to result in additional primary recovery, shorter waterflood response times, higher peak rates, and better economics.

14. The unitized interval for the proposed South Justis Unit should extend from the top of the Justis Blinebry as defined by the NMOCD to the top of the Abo.

RECOMMENDATIONS

1. Compile an accurate list of working interest owners in each tract and begin immediate negotiations on a unit participation formula.

2. Prepare the proper instruments for unitizing the South Justis Unit and obtain the necessary federal, state, royalty owner and working interest owner approval to form the unit.

3. Conduct 20-acre infill drilling operations and waterflood the proposed South Justis Unit with 40-acre five-spot patterns. The infill wells should primarily be water injectors and conversions of old wells to injectors should be minimized.

RESERVOIR GEOLOGY

Summary

A geological study was undertaken to compare the reservoir quality of the Blinebry with that of the Tubb/Drinkard and to evaluate pay continuity. Based on log surveys and core descriptions, the lithologies of the two zones are very similar due to similar depositional environments. The Blinebry is about 200' thicker than the Tubb/Drinkard and is about one-half mile longer and wider. Attempts to correlate porous zones throughout the Blinebry and Tubb/Drinkard intervals over distances of two or three well locations were generally unsuccessful due to the complex sequence of depositional settings and subsequent modification by dolomitization. Several stick cross sections which show the original zones of completion and subsequent workover zones as well as two core descriptions are included in Appendix A.

Geological Analysis

The Justis Field is located in south central Lea County, New Mexico, on the Central Basin Platform. The field is an elongated north-south trending anticline which is about two miles wide and nine miles long. Figure 1A is a structure map contoured on the top of the Blinebry formation which shows the area of interest. At the Blinebry level, the field has about 250' of structural closure. Details of the lithology and stratigraphy have been reported by S. J. Mazzullo in a study conducted by Hickman and Associates (dated August 27, 1987).

The Blinebry-Tubb/Drinkard formations, which are of Leonard age (lower Permian), produce from a complex dolomite facies which has a gross thickness of about 1200'; the gross thicknesses of the Blinebry and Tubb/Drinkard are about 700' and 500', respectively. The sequence was deposited in a broad flat, shallow-shelf setting which persisted on the Central Basin Platform throughout Leonardian time. Subsequent to deposition, the area was deformed into the configuration as mapped. Deposition was controlled by fluctuating sea level conditions which probably began during Abo time and continued in this area throughout Leonardian and Guadalupian time. The resulting stratigraphic intervals consist of a complex sequence of reservoir and non-reservoir rock types. The primary facies are eolian, intertidal to supratidal, shallow subtidal, and deeper subtidal. The productive facies are the intertidal to shallow subtidal intervals; the other facies are tight non-reservoir rock types. The units combine to form a complex interfingering sequence of reservoir and non-reservoir rock types, such that the reservoir components are generally separated laterally and vertically from each other.

The reservoirs are primarily dolomites which were originally fine to medium grained calciclastics with primary porosity and permeability. The dolomitization process modified (increased or decreased) the original reservoir properties masking the original rock fabric. Reservoir conditions are similar across the area regardless of structural position and characterized as pinpoint biomoldic to leached matrix type porosity. Locally, the reservoir is enhanced by vugs and micro fractures. Reservoir distribution is generally discontinuous (except locally) in both lateral and vertical directions.

Log and Core Analysis

Electric logs, cores, and well samples were analyzed in the South Justis area in an attempt to better understand the issues of reservoir continuity and lithological differences between the Blinebry-Tubb/Drinkard formations. Figure 1A (Blinebry structure contour map) in Appendix A shows the location of a series of six East-West stick cross sections (labeled A-A' through F-F') which provide a framework for stratigraphic correlation as related to perforated intervals in the Blinebry-Tubb/Drinkard formations. Well sample and core descriptions were provided on selected wells by S. J. Mazzullo which are included in a report by Hickman and Associates (dated June 26, 1987). Two Blinebry cores, one from ARCO's Justis Federal #2 located in Section 11-T25S-R37E and the other from ARCO's Langlie Federal #2 located in Section 14-T25S-R37E, were described and are included (Figures 8A and 9A) in this report. Thin sections were also prepared from selected intervals of the core and are available for examination. Based on the analysis conducted by Hickman on the limited core data available, the average porosity is estimated to be 5.4%. The average permeability is 3 md with a range of .1 md to 50 md.

Pay Continuity

A series of E-W stick cross sections, hung stratigraphically, was constructed and shows the productive zones. Noted are the original completion intervals and subsequent workover zones. The original perforated intervals, generally considered to represent the better reservoirs, occur at various stratigraphic levels at different locations across the field. Reservoir continuity relationships can be determined by examining the series of E-W stick cross sections (Figures 2A through 7A) and mapping the various reservoir groups.

The stick cross sections were initially constructed to show the structural and stratigraphic framework, and originally included all formations from surface to TD with subsequent focus on the Blinebry-Tubb/Drinkard. The results showed that individual reservoir zones are only locally correlative and that they would not have communication laterally with other Blinebry-Tubb/Drinkard intervals more than one-quarter to one-half mile away. In addition, no evidence was found to suggest the existence of a systematic fracture network also precluding vertical communication between reservoir units. It was also concluded that, in any given wellbore, the better reservoir intervals were properly evaluated and included in the original completion programs. Generally, subsequent workover projects produced only a fraction of the oil recovered from initial completion work and are generally characterized by fairly rapid decline rates.

All rock samples and log data indicate the Blinebry and Drinkard formations to be very similar lithologically. The two dolomite units are separated from each other by the Tubb formation which is described as a sandy dolomite. In both formations, the reservoir units are encased in tight dolomite or dolomitic limestones which contain varying amounts of anhydrite. The significant difference between the Blinebry formation and the Tubb/Drinkard formation is the extent of reservoir development which controls the limits of productivity. The Tubb/Drinkard reservoirs are not as well developed as the Blinebry reservoirs. The Tubb/Drinkard Field limits range from 1/2 to 1-1/2 miles wide by 6-1/2 miles long, whereas the Blinebry Field ranges from 1-1/2 to 2 miles wide by 9 miles long. The cumulative recovery from the Tubb/Drinkard is significantly less than that of the Blinebry.

Conclusions

A preliminary geological evaluation has been conducted which provides a structural and stratigraphic understanding of the South Justis area. Further geological studies are planned as the unitization efforts proceed. This phase of the evaluation involved approximately 1/4 of the 200 wells in the subject area. Conclusions of the preliminary evaluation are:

(1) The stratigraphy is a complex sequence of interfingering reservoir and non-reservoir dolomitic rock units.

(2) The reservoir units are generally laterally discontinuous, except locally, with no evidence to support systematic vertical permeability.

(3) The best reservoirs are generally included in the original completion interval, disregarding reservoir pressure decline.

(4) The lithologies of the Blinebry and Tubb/Drinkard units are very similar due to similar environments of deposition.

(5) The Blinebry reservoirs are 200' thicker with a larger areal distribution than those in the Tubb/Drinkard.

PRIMARY PERFORMANCE

Yearly oil, water, and gas production data from 1957 (year of discovery) through 1989 for each well in the entire Justis Blinebry and Justis Tubb/Drinkard Fields were entered into a database. Table 1 lists yearly oil, gas, and water production by reservoir for wells in the proposed unit area. Table 2 lists the same information for the combined reservoirs. Table 3 lists cumulative production data through 1989 by reservoir, operator, and well for the South Justis Unit.

Figures 1, 2, and 3 are historical plots of oil, gas, and water production for the Blinebry, Tubb/Drinkard, and combined reservoirs, respectively. There are 123 active Blinebry and Tubb/Drinkard completions currently in the unit. The cumulative production through December 31, 1989 from the tracts in the proposed unit is 28,694 MBO. The remaining primary oil (from January 1, 1990) is 1668 MBO. The ultimate primary oil recovery from the area in the proposed unit should be 30,361 MBO. Hickman's volumetrically calculated OOIP for all of the South Justis area (209,540 MBO) was reduced using the same primary recovery factor (0.146) to 207,952 MBO. Table 4 summarizes the primary performance of the tracts in the proposed unit.

Based on the results of a regional Clearfork study that will be presented later in this report, a primary recovery efficiency of $\pm$15% under 40-acre development is a reasonable recovery for a Clearfork reservoir and verifies the accuracy of Hickman's volumetric OOIP. An attempt was made to verify the OOIP with a material balance but the results were inconsistent and are not considered a reliable indicator of the OOIP. Factors which may make utilizing material balance equations an inadequate tool to describe the Justis reservoir include poor pressure decline data, water influx data, and gas production data. Also, most material balance models assume a radial reservoir which is not applicable at Justis.

BLINEBRY WATER PRODUCTION

Significant water production (15.7 MMBW cumulative as of January 1, 1990) from the Blinebry in the South Justis area has been observed. In 1989, the average water production rate from the Blinebry in the unit area was 1078 BPD, or only about 9 BPD/well. Most of the water has been produced along the western and southern edge of the structure (Figure 4). Table 5 ranks the cumulative water produced by the top water producing wells with the cumulative oil produced and provides the running totals. The top 12% of the wells which have recovered the most water (18 of a total of 154 wells in the field) have produced 40% of the total water cumulative (6.4 MMBW) but only 15.7% of the total oil cumulative (3.4 MMBO). A plot of this data is presented in Figure 5.

A strong edge water drive does not appear to exist. A strong edge water drive would have exhibited pressure support and a gradation in water cut and cumulative up the flank of the structure. Also, substantially higher current water rates would have been observed if a strong water drive existed. Tubb/Drinkard production below the Blinebry has not been affected by a strong water drive. The producing histories suggest that water is encroaching into some Blinebry wells through individual stringers along the western and southern edges of the reservoir. This is not expected to adversely impact potential waterflood operations.

BLINEBRY GAS PRODUCTION

T. S. Hickman's study reported that the Blinebry in the South Justis area had produced more gas than was volumetrically possible (page 12 and Table 7, Volume I). Based on Hickman's volumetric OOIP (154,047 MBO) and the original gas-oil ratio (822 SCF/STB) for the Blinebry, the original solution gas in place should be 126.6 BCF. The Blinebry has produced 138.3 BCF as of January 1, 1990 from the unit area.

PVT evidence suggests that a gas cap did not originally exist. The estimated original reservoir pressure of 2500 psig is based on initial pressure tests of the discovery wells. The bubble point pressure determined from a recombined sample from Gulf's Learcy McBuffington #6 is only 2170 psig which indicates an undersaturated reservoir.

To explain the excessive gas production from the Blinebry, Hickman suggested the formation of secondary gas caps shortly after development began and/or wellbore communication with an overlying gas zone, the Glorieta formation. A study was undertaken to evaluate the relationship between the Glorieta and the excessive gas production from the Blinebry. Fifteen Glorieta completions have been reported along the Justis structure (Figure 6) in the unit area. The total cumulative production from these wells through December 31, 1989 is 64 BCF. Individual decline curves for each Glorieta well showing gas, water, and oil production along with tubing pressures (Appendix B, Figures 1B through 15B) were generated. Histories of the Blinebry wells offsetting the Glorieta wells were compiled and summaries of stimulations were added to the production plots.

In some instances, a correlation appears to exist between the addition of perforations between 5000' and 5100' in a Blinebry well and a change in the production decline and/or pressure decline in the nearby Glorieta well. Examples include ARCO's Eaton B #1, Chevron's Ramsay F #3, and El Paso's Langlie #1. Since numerous Blinebry wells have been completed near the top of the zone, it is possible that Glorieta production could be a factor behind the apparent excessive Blinebry gas production. The apparent communication of the Blinebry and the Glorieta in individual wellbores will influence the completion techniques and injection well design procedures in secondary operations.

A higher OOIP than the volumetrically derived value could be an alternate explanation for the large Blinebry gas production. Material balance calculations, although derived from insufficient data, suggest that the OOIP in the Blinebry is greater than the volumetrically calculated OOIP which could account for the extra gas production.

REGIONAL CLEARFORK STUDY

Summary

Several West Texas Clearfork waterfloods on the Central Basin Platform close to Justis were studied to evaluate the technical success of waterflooding the Clearfork, which correlates to the Blinebry, Tubb, and Drinkard in southeast New Mexico. The seven units for which the most information was available were Amoco's Northeast Prentice Unit, Chevron's C. A. Goldsmith Unit, Exxon's Fullerton Clearfork and Robertson Clearfork Units, Mobil's Russell (Clearfork 7000') Unit, Shell's Flanagan Unit, and Unocal's Dollarhide Clearfork Unit (Appendix C, Figure 1C). Each Unit was characterized and compared to the proposed South Justis Unit. Mobil's Russell Unit appears to be most like the South Justis Unit.

A key correlation was developed relating 40-acre primary recovery efficiency to secondary/primary ratios for 20- and 40-acre spacing (Figure 19C). Approximately 4.4 MMBO of reserves around the edge of the proposed unit will not be available for recovery because peripheral development is not justified. For the South Justis Unit, the expected primary recovery is 30.4 MMBO, or 14.6% of the OOIP. The expected S/P ratios and recoveries are 0.85 (22 MMBO) for 40-acre spacing and 1.15 (34 MMBO) for 20-acre spacing. Time rating curves (Figure 21C) were also developed for 20- and 40-acre spacing and incorporated into the unit forecasts of performance.

Introduction

The South Justis Field reservoirs (Blinebry and Tubb/Drinkard) are similar in age and lithology to a number of Clearfork reservoirs in West Texas. Several of these West Texas reservoirs have been waterflooded and infill drilled. There is enough performance information to suggest that these reservoirs are somewhat predictable even though their reservoir properties, operations, and performance have varied considerably. Based on correlations developed from these other floods, a reasonable estimate for the waterflood and infill drilling performance and for related reserve recovery for the proposed unit has been determined.

The South Justis Blinebry and Tubb/Drinkard Fields in the proposed unit have an estimated OOIP of 208 MMBO. Nearly 31 MMBO, or 14.6% of the OOIP, should be produced under 40-acre primary development. The following study shows that 22 MMBO of additional recovery, or 10.6% of the OOIP, is the expected benefit from waterflooding on 40-acre spacing. Also, full 20-acre development under secondary operations should increase recovery by an additional 12 MMBO, or 5.8% of the OOIP.

Discussion

The Justis Field Blinebry and Tubb/Drinkard reservoirs are very difficult to describe physically because both continuity and the relationship between porosity and permeability, which are critical in characterizing the reservoir, vary too widely to define accurately on a reservoir-wide basis. Because of the difficulty of using reservoir parameters to project the secondary and infill drilling project performance, it was determined that a regional study of the Blinebry and Tubb/Drinkard (Clearfork) reservoirs would provide the most reliable indication of how the South Justis project would perform.

Data Collection

As many as 17 Clearfork projects were identified with various levels of secondary operations and infill drilling. A number of these projects were eliminated because waterflooding was implemented too recently or the nature of the project made the data difficult to use and compare with other projects. As a result, seven projects were used and studied in great detail and are reviewed in this discussion. The seven projects that were utilized, as well as the proposed South Justis Unit, are shown geographically on Figure 1C.

Once the key projects were selected, the parameters that would be used to characterize the reservoirs and related operations were identified. The projects were characterized using three general categories, namely: reservoir description, production performance, and operating scheme.

The reservoir description parameters included basic data such as net pay, average porosity, and permeability as well as more interpretive data, such as vertical permeability variation, continuity, and aquifer contribution. Also, reservoir fluid and end-point saturation information was obtained whenever it was available. The sources for this data includes: SPE papers, working interest owner reports, Secondary Recovery Hearings from the TRC, and direct contact with the operator. Generally, the reservoir parameters vary considerably from project to project and cannot be relied on for performance projections. Not only are the reservoirs themselves varied but the methods used to generate the data no doubt varied from project to project. Figures 2C through 6C summarize the important reservoir data for each project.

The second type of information assembled for this study was the production performance data. This data is the most valuable for two reasons: (1) it is the most reliable since these values are public record and not based on interpretation, and (2) it provides the best correlation among the projects for predicting waterflood and infill drilling results. All oil production and water injection data was compiled for the seven key projects from the beginning of water injection. Also, well count information was noted throughout the life of these waterfloods. Figures 7C through 10C summarize production characteristics of the various projects.

The last type of information extracted from the various sources was related to the operation of the projects. This includes details such as injection pattern, well spacing, and injection pressures, among other items. Observations regarding operation of the seven projects are reviewed later in this report.

Characterizing the Projects

Once all the data was collected, the performance of the units was characterized to determine if that performance could have been predicted accurately from pre-waterflood information. This characterization took the form of a dimensionless plot of recovery efficiency versus displaceable hydrocarbon pore volume injected. Figure 11C shows the performance history of the seven projects. It is apparent that all the projects are relatively mature and are performing well, with the possible exception of the Robertson Clearfork Unit.

To define the reserve benefits of waterflooding and infill drilling separately at Justis Field, it was critical to first determine these separate benefits for the seven projects in this study. Fortunately, Barbe and Schnoebelen with Exxon documented a detailed quantitative analysis of the separate benefits of waterflooding and infill drilling at the Robertson Clearfork Unit (JPT, December 1987). In their analysis, they segmented the ultimate production into the following categories: 40-acre primary, 40-acre secondary, 20-acre primary, 20-acre secondary, 10-acre primary, and 10-acre secondary recoveries. This was done by using a nonlinear regression analysis on the performance data. The validity of the regression was verified in this study and it appears to be reasonable. Once the ultimate contribution of each category was known, it was possible to generate the curves in Figure 12C which shows the performance of waterflooding and infill drilling separately. Using a similar approach for the remaining six projects yielded Figures 13C through 18C. Note that all the other projects were developed on 20-acre spacing except for two projects. The Flanagan Unit still remains on 40-acre spacing, and the C. A. Goldsmith Lease had very limited 10-acre development. While this technique appears to give reasonable results, it is an estimate. Even so, it is important to keep in mind that several of the curves in each of these figures are based on projections of historical data. For example, there was usually sufficient data to comfortably extrapolate by constant percentage decline analysis the recoveries from 40-acre primary, 40-acre secondary, and 20-acre secondary phases. The result of this effort provides characterizations of these seven projects which were used to develop a performance prediction model for all Clearfork projects.

The Prediction Model

To develop a predictive model, it was necessary to determine if any pre-waterflood information (i.e., reservoir data, primary production) consistently foretold waterflood and infill drilling performance. Primary oil production proved to be the most reliable pre-waterflood indicator of waterflood and infill drilling performance. Figure 19C shows the relationship between secondary to primary ratio (20- and 40-acre spacing) and 40-acre primary recovery efficiency. The two lines on the plot represent the best fit for the projects in this study, not including the Robertson Clearfork Unit. The Robertson Clearfork Unit was not included because the reservoir was much more discontinuous than the other projects' reservoirs, as evidenced by its very low primary recovery. The nature of the two lines on the plot suggests that a higher S/P ratio would be expected in the case of lower primary recovery. It is likely that these cases had lower initial reservoir energy compared to the high primary recovery cases which probably had a greater primary or secondary gas cap or aquifer support, which reduced the benefit for secondary operations. Also, reservoir discontinuities may have impacted recoveries.

Figure 19C can be used to forecast secondary reserves on any Clearfork project, including South Justis, where ultimate primary recovery efficiency is known. An exception to this would be a project with a particularly discontinuous reservoir, or one of poor quality. To determine the S/P ratio on 40-acre well development for the Justis Field, simply enter the X-axis at 14.6% recovery efficiency and read the S/P ratio associated with the 40-acre S/P ratio line. The S/P ratio is about 0.85 in this case. Using the same process on 20-acre spacing yields an S/P ratio of about 1.15. Note that the S/P ratios would be greater if the OOIP has been underestimated, and the ratios would be reduced if OOIP has been overestimated. Historically, Clearfork reservoir OOIP estimates have increased as projects develop.

To complete the estimate of secondary and infill drilling reserves, it was necessary to determine how much to expect from the primary recovery mechanism with 20-acre spacing. Once again, 40-acre primary recovery efficiency (RE) provides an indication of expected 20-acre recovery. Figure 20C reflects this relationship. Figure 20C might suggest that a higher 40-acre primary recovery efficiency would result in a higher 20-acre primary recovery efficiency. However, the projects with high 20-acre RE's were also those projects with 20-acre development on a reduced and selective scale. Only the better part of these units had infill drilling. Therefore, these properties showed higher RE's for the limited level of 20-acre development as compared to those units that were fully developed on 20-acre spacing. Since this study assumes full field development at the South Justis Field, it is necessary to weigh more heavily those projects (i.e., Robertson, NE Prentice) that also were fully developed on 20 acres. Based on Figure 20C, South Justis may expect a 2.5% RE from the primary mechanism on 20-acre spaced wells. If selective 20-acre development were implemented at Justis, the affected OOIP would be reduced, but the RE would improve because the best part of the reservoir would be developed.

The total primary production under 40-acre and 20-acre spacing for South Justis would be 17.1% (14.6% + 2.5%) of the OOIP. Using the 1.15 S/P ratio from Figure 19C for 20-acre spacing indicates the total secondary performance will yield 16.8% (14.6% x 1.15) of the OOIP. However, as was pointed out, 12.4% (14.6% x 0.85) of the OOIP could have been recovered by secondary operations on 40-acre spacing. Therefore, the difference in 16.8% and 12.4%, or 4.4% of the OOIP, yields an apparent incremental secondary recovery for 20-acre spacing. Based on the reservoir characterization plots, most of the projects recover no more than 33% of the OOIP. From the above analysis and the upper limit for overall recovery, the expected secondary recovery from 20-acre spacing is about 3.5% of the OOIP.

Time Rating Reserves

For South Justis, it has been shown that 40-acre primary, 40-acre secondary, 20-acre primary, and 20-acre secondary will provide estimated recoveries of 14.6%, 12.4%, 2.5%, and 3.5% of the OOIP, respectively (Table 6). The maximum overall recovery is estimated to be 33% of the OOIP. These reserves were time rated so that a revenue forecast could be generated for the economic analysis. A comparative analysis among all seven projects was done to determine which type of response, as seen in Figures 13C through 18C, might be expected at South Justis Field.

Prior to actually comparing the character of the oil recovery curves, there were two units that were considered the most likely to be the model for Justis: Dollarhide and Russell. The Dollarhide Unit was attractive because of its proximity to Justis Field while the Russell Clearfork Unit was attractive because many of its reservoir characteristics were similar to those of South Justis.

When the various curves were overlaid (Figure 11C), it was obvious that the Dollarhide Unit was not very representative of the group of projects, primarily because the early injection efficiency problems resulted in a very sluggish waterflood response. These injection containment problems were addressed in a Unocal study that justified an attempt to correct the problem. Apparently, the problem was corrected because the project is currently enjoying very good secondary and infill drilling response. Certainly water injection containment should be a priority at Justis Field.

The time rating of the Russell curves appeared to be one of the most representative of the group of projects as a whole. This, coupled with the reservoir similarities between the Russell Clearfork Unit and South Justis, suggested that the "Russell type" response would be most appropriate. Figure 21C illustrates the time rated responses to waterflooding and infill drilling as a fraction of total expected recovery based on the Russell Clearfork Unit response. Note that there are two 20-acre infill curves: one to represent concurrent waterflood and drilling projects and another to represent infill drilling delayed until after fill-up. Delayed drilling has no apparent advantage.

General Information

During the data gathering phase of this study, additional information was found that is worth mentioning in a qualitative fashion. First, all seven projects claimed to have limited or no aquifer support whatsoever as is the case with Justis. Also, the projects' operators claimed that no primary gas cap existed. It follows that solution gas drive was the predominant primary mechanism in the seven projects studied. However, at Justis, there has been a tremendous volume of gas produced either from a gas reservoir source connected behind pipe or at the top of the Blinebry structure. Regarding injection patterns, they varied between five spots and nine spots while two projects had a portion of the field with a line drive scheme. A directional permeability with a northeast-southwest orientation was mentioned in a few project studies and is expected at Justis. This was considered during the design of the South Justis waterflood pattern. Finally, it appeared that with most projects, the estimates of OOIP increased as time progressed and infill wells were drilled.

Conclusions

This regional study provides one approach to forecasting waterflood and infill drilling response in Clearfork reservoirs and particularly, Justis Field. The approach is supported by performance from seven mature and well documented Clearfork projects. A method is provided to determine the reserves associated with various levels of development and also to time rate the reserves for economic evaluations.

Using a value for OOIP of 208 MMBO for the South Justis area, an estimated 34 MMBO (16.4%) can be assigned to full unit 20-acre development.

The South Justis Blinebry and Tubb/Drinkard reservoirs are quite similar to the other projects reviewed in this study and should perform in the fashion this study predicts. The only important difference is the relatively large volume of gas produced in the Justis Blinebry Field. This may not be a problem if this gas has been produced behind pipe from the Glorieta reservoir as is currently believed. If this is the case, then a completion philosophy that addresses the gas channeling should resolve this issue.

SECONDARY FORECASTS

Two development plans were investigated during this study: 80-acre line drive and 40-acre five-spots. Hickman's normalized injectivity model (Figure 7) formed the basis for predicting how individual injectors would perform after injection began. Based on core analysis, an average KH of 485 md-ft is expected for a Blinebry-Tubb/Drinkard well. Since not all injectors will include the Tubb/Drinkard, a weighted average KH of 448 md-ft per well was used to estimate injectivity on a unit basis. The S/P and time rating curves provided by the regional Clearfork study (Figures 19C through 21C) became the basis for predicting the amount of secondary reserves and the timing of their recovery for both development plans.

An attempt to forecast the secondary response with a simplistic five-spot model was made and the results were too optimistic. Modeling carbonate reservoirs usually yields poor results due to optimistic sweep efficiencies built into the model and discontinuities in the reservoir.

80-Acre Line Drive

The Hickman study only addressed an 80-acre line drive development (Figure 8) in which there were 70 producers and 65 injectors. The calculated total pore volume of 48,305 acre-feet (Table 3, Volume I - Hickman Study), and fluid saturations were used to estimate a displaceable pore volume of 187,375 MRVB. Table 7 is the projected secondary recovery versus pore volume injected. The following reservoir parameters from PVT data were used to calculate a fill-up volume (75 MMRVB) and an ABAR (the ratio of the gas saturation at the time of waterflooding to the original oil saturation) of 0.4.

Boi = 1.4
Box = 1.2
Scw = 0.22
Sor = 0.28

The total KH for the unit's 65 injectors is 29,120 md-ft. The calculated initial injectivity (87.4 MBWPD) is greater than the proposed plant capacity (71 MBWPD for the 80-acre line drive case) and was reduced. Injectivity falls below plant capacity during the first year of waterflooding. An injection efficiency of 60% was assumed and the initial net injection is 42.6 MBWPD. Net injection was projected to decline to 19 MBWPD within four years with fill-up expected to occur in about 18 years.

The time rating plot in the regional Clearfork study forecasted insignificant secondary recovery on 40-acre spacing until almost 40% of the displaceable pore volume is injected (Figure 21C). This is projected to occur in about nine years. Data generated by a pilot test at the Central Drinkard Unit (which is about 25 miles north of Justis) was utilized to time rate the recovery of reserves (Figure 9). The two time rating forecasts closely resemble each other and validates the use of this technique.

A correlation between primary recovery efficiency and S/P ratio (Figure 19C) developed in the regional Clearfork study is the basis for the secondary reserve estimate. The primary recovery efficiency expected in the unit (14.6%) should result in an S/P ratio of 0.85, or 22 MMBO of secondary reserves for 40-acre spacing. Table 7 summarizes the details of the injection and production forecasts for 80-acre line drive patterns and Figure 10 presents the forecasts. The GOR profile in Figure 10 reflects the recovery of approximately 16 BCF of remaining primary gas during waterflood operations. Make-up water should satisfy the unit's injection requirements during the early life of the project. By the time 70% of the reserves are recovered, produced water should match injectivity (20 MBWPD) and make-up water should no longer be needed. Because Clearfork floods exhibit low injectivities on 40-acre patterns, peak rates are low and project lives are extended.

40-Acre Five Spot

Most of the waterfloods investigated in the regional Clearfork study are developed on 20-acre spacing and generally with 40-acre five spots. A similar infill program for the proposed South Justis Unit was investigated (Figure 11). After careful review of several plans of development, the Technical Committee recommended developing the unit on 20-acre spacing by drilling mainly new injectors. Because of efficiency and environmental concerns, converting old wells to injectors will be minimized.

Time rating of the reserves for 40-acre five-spot patterns is based on the upper curve of the regional study forecast (Figure 21C). There should be 102 injectors and initial injectivity is estimated to be 137 MBWPD. Most injection needs will be met with make-up water. Injection efficiency is predicted to be 85% with fill-up occurring in about five years. Table 8 summarizes the injectivity and recovery forecasts for 40-acre five-spot patterns and Figure 12 presents the forecasts. The four proposed infill producers are expected to produce 50 BOPD per well initially (based on production results from other Clearfork floods) and increase overall unit production by $\pm$200 BOPD. The GOR for the new wells should be approximately 5000:1 and the expected gas recovery during secondary operations for all wells is 42 BCF.

The injection plant for the 40-acre five spot case is designed to supply 123 MBWPD at 1500 psig discharge pressure to the Unit. For 40-acre five-spot development, three multi-stage centrifugal pumps with 1500 HP electric motors will be utilized. The expected initial injectivity of the unit of 137 MBWPD decreases to less than 100 MBWPD within one year of startup. The plan is designed to economically meet injection needs of the unit during startup and to provide a back-up pump once injectivity has stabilized.

Mobility Ratio

The mobility ratio (M) is a ratio of the relative permeability to viscosity ratio of the displacing phase to the displaced phase and can be used to predict the success of a waterflood. No relative permeability data has been gathered at Justis. Based on correlations, the mobility ratio is estimated to lie in a range of 0.6 and 1.0. Mobility ratios less than 1.0 are considered favorable for waterflooding.

ECONOMICS

Uninflated economic projections were made for both development plans using the costs which are provided later in this report. The results conclusively demonstrate that infill drilling and flooding on 40-acre five-spots can be a very profitable investment. The Clearfork has a proven record of successful secondary recovery operations. However, due to the heterogenous nature of the reservoir rock, infill drilling on 20-acre spacing will be essential to an economical project. Closer spaced wells result in higher injection rates into the reservoir and quicker fill up, a higher production rate as infill wells recover additional primary reserves, quicker response times and a higher peak response rate, improved sweep efficiencies, better conservation of resources, and prudent management of assets in the field.

Cash flow projections for both development plans are shown in Appendix D with 100% working interest and 87.5% net revenue interest. The following assumptions were made:

Severance Taxes	3.75%
Ad Valorem Taxes	3.54%
Oil Price	$18.00/BO
Gas Price	$2.00/MCF
Overhead	$400/well/month
Operating Cost	$2000/well/month - producers $500/well/month - injectors
Water Cost	8¢/BW
Unitization	1-1-91
Initial Injection	1-1-92

Projections were made for non-unitized primary operations and for unitized operations. The difference between the two is the incremental cash flow for secondary recovery operations. The incremental economics for 80-acre line drive and 40-acre five-spot development are the following:

	80-Acre Line Drive	40-Acre Five-Spot
Total Cost (MM$)	34.00	69.70
Incremental Reserves (MMBO)	22.00	34.00
Development Cost ($/BO)	1.55	2.05
Investor's Rate of Return (%)	2.90	15.50
Expected Payout (Years)	29.63	8.15
Expected Present Worth (M$)		
As of 1/1/91 (AFIT)		
Undiscounted	41,093.5	218,213.6
At 6%	-16,802.2	78,523.6
At 10%	-24,389.8	34,050.3
At 15%	-26,628.1	2,409.6
At 25%	-26,060.9	-25,642.7

DEVELOPMENT COSTS

New Wells, Workovers, Conversions

The estimated cost to develop both the Blinebry and Tubb/Drinkard reserves (22 MMBO) in the unit on 80-acre line drive patterns is $34,035M, or $1.55/BO. The estimated cost for 40-acre five-spot development (34.0 MMBO) is $69,737M, or $2.05/BO (Table 9). Generic workover procedures, WIW conversion procedures, and drilling prognoses are included in Appendix E along with their cost estimates. Due to the lack of good geological data, cores are planned for five wells and repeat formation tests are planned for 20 wells. A suite of modern porosity and resistivity logs are planned for new wells. Also, all wells will be tested for casing integrity and repaired as needed.

For comparison purposes, the estimated cost to develop the Blinebry is 90-95% of the cost to develop both the Blinebry and Tubb/Drinkard depending on the waterflood pattern (Table 10). The latest cumulative production data from the proposed unit area (Blinebry - 20.9 MMBO, Tubb/Drinkard - 7.8 MMBO) suggests that the Tubb/Drinkard contains approximately 27% of the recoverable reserves, assuming that the recovery efficiencies and production lives are the same. On 20-acre spacing, the estimated overall recoverable reserves are 34 MMBO. Approximately 27%, or 9.2 MMBO, are estimated to be recoverable from the Tubb/Drinkard. The incremental cost to develop those reserves on 40-acre five-spots is $4533M, or 49¢/BO.

Facilities

Preliminary designs were centered around four plans of development: (1) 80-acre line drive, (2) 80-acre five-spot, (3) 40-acre five-spot/80-acre line drive, and (4) 40-acre five-spot. Options 2 and 3 were not viable because of their inefficiencies and lack of flexibility. The cost summaries for two cases are shown in Figure 1F. Optional items (Figure 2F) include positive displacement pumps, a filtration system, and a spare pump rotor. No optional equipment was included in the economics. The cost estimate to equip each producing well is $46.3M (Figure 3F).

Once the project is approved and all governmental approvals have been obtained, final design, equipment selection, bid awards, equipment fabrication, and facility installation will take about one year (Figure 4F).

Injection Water

Most of the water can be supplied by either Texaco's Jal Salt Water Supply System or Capitan Enterprises' West Texas Water Supply System. Texaco's Jal system appears to be the most viable option. However, no negotiations have been undertaken with any water suppliers. The injection system will also utilize produced Blinebry and Tubb/Drinkard water along with water from the Fusselman. Initially, Blinebry, Tubb/Drinkard, and Fusselman water sources should provide 3,000-5,000 BWPD. Analysis of all of these waters indicates they are all compatible (Figure 13). Presently, Blinebry and Tubb/Drinkard production is commingled in numerous wellbores and the waters are compatible.

Texaco's Jal system can supply 120 MBWPD for approximately 8¢/BW. For 40-acre five-spot development, initial injectivity for the reservoir (137 MBWPD) is expected to exceed the produced water plant capacity (123 MBWPD) for the first three months of injection. After that, plant capacity exceeds the injectivity and the need for large volumes of Jal water should decrease. The line to Texaco is sized to handle 120 MBWPD.

The Jal water system is utilized at the nearby Seven Rivers Queen Unit with good results. No filtration other than settling tanks upstream of the pumps and strainers at the wellhead are planned. Sand filters are not considered necessary and are not planned for the South Justis Unit.

Engineering Design and Construction

1. Introduction and General Assumptions

   Only start-up spares have been included (no long term or warehouse spares). An optional price will be provided for one (1) spare centrifugal rotating pump element. No office or dog house facilities have been provided at any of the batteries or the water plant with the exception of the field office. No sales gas distribution facilities have been provided, i.e., all gas sales will take place at the battery limits of the satellite batteries and the central battery. It was also assumed that no sweetening or compression will be required. None of the injection water supply, injection water distribution system, or production gathering system pipelines contain pigging facilities.

   There has not been any consideration in the design of any of the pipeline and facility systems for any future tertiary recovery, i.e., handling of CO_2, etc. The pipeline and facility materials assumed in the estimate could handle CO_2 with little cost impact. However, no consideration has been given to the different flow and pressure requirements for the use of CO_2 in a tertiary recovery scheme. All materials of construction will meet NACE MR-01-75 requirements for the production equipment and gathering system as the hydrocarbon production contains 5,000 to 10,000 ppm of H_2S. There is a negligible CO_2 contained in the hydrocarbon production.

2. Field Office and Lay Down Yard

   The office and adjoining lay down yard will be located south of and adjacent to State Highway 128 at the intersection of an existing lease road. The fenced lay down yard will be two acres in size.

3. Electrical Power Distribution System

Southwestern Public Service Company has a 115 KV transmission system and sub-station six miles northwest of the proposed Unit. It is assumed that Southwestern Public Service will serve the waterflood unit at 12.47 KV and provide service at the northwest corner of the unit. A single meter will be provided by the power company at that point. A 477 MCM ACSR express feeder will be run from the service point down to the water injection central battery facility. From that point, all new overhead distribution to all producing wells and production facilities will be provided. This will include all new transformers and services to producing wells. The field and plant loads will be segregated into three sections. The field will be separated into a northern and southern section and the central facility will be on the third section. A maximum 60 hp load at each producing well was assumed. For the largest load case at the water injection plant, 4500 hp was assumed (3-1500 hp machines). At this time, it is assumed that the system can handle the starting of these 3-1500 hp motors.

For operators on Unit property who operate facilities not included in the Unit, the existing power service will remain unchanged. The exception will be where a portion of the Operator's facilities are in the Unit and a portion are not. In this case, the portion belonging to the Unit will be disconnected and power will be supplied by the new Unit power distribution system. The estimate assumes power is existing at the Fusselman leases (ARCO's State "Y" and Wimberly leases for instance) for the new booster pumps.

4. Injection Water Supply to Plant (Texaco and Fusselman)

Produced water from Fusselman sources and the Unit production will be supplemented by a supply of salt water from Texaco or from Capitan Enterprises. The supply line from Texaco will require 25,300' of 10" polylined carbon steel piping to deliver this water from Texaco's tie-in point to the water injection plant. The line has been sized for 120,000 barrels of water per day. It was assumed that the supply pressure at the Texaco tie-in point is 125 psig and that no booster pumps will be required. Water from the Fusselman sources will be delivered in 8000' of 6" fiberglass pipeline. It was assumed that this water will be taken from an existing atmospheric storage tank and that booster pumps will be required to pressure the water from the Fusselman sources to the injection water plant. This line has been sized for 6000 barrels of water per day.

5. Injection Plant

This plant will be located approximately 1/4 mile south of State Highway 128 adjacent to an existing lease road. This plant will supply pumps and tankage to take injection water supply from atmospheric tanks up to 1500 psig discharge pressure for distribution to the injection wells. The plant will be manned eight hours per day, seven days per week.

There are three sources of injection water. The first source would be the produced water from the Unit. The second source would be from leases producing from the Fusselman. The balance of the water will be supplied from an outside supply system. Various laboratory tests have been conducted on these waters and it was assumed that there would be no compatibility problems with mixing these three waters.

The base estimate assumed the use of three centrifugal electric motor driven pumps operating in parallel. Additional cost savings could be realized by using two centrifugal pumps in parallel. However, due to flexibility considerations, it was thought that the three pump case would be more appropriate as the estimate basis. Optional prices have been provided for each case using the required number of 600 hp positive displacement pumps. The use of centrifugal pumps is recommended due to capital and operating cost considerations as well as potential pulsation problems. For the initial design rates, no spare pumps are included in the estimate scope. Pump discharges are designed for 900 ANSI.

A pump building will be supplied to house the injection pumps, booster pumps, plant switch-gear and injection water headers. The prime consideration in supplying a building was freeze protection. The building will be a steel frame building on a concrete slab. It will be uninsulated but will contain catalytic heaters for low ambient temperature conditions. A bridge crane and overhead doors will be provided for ease of pump maintenance. Suction and discharge headers will be located in trenches in the concrete slab. Three 50% booster pumps will be provided to supply NPSH requirements for the injection pumps.

Injection water lines will either be insulated or underground. No heat tracing has been provided. Above ground piping will be on sleepers. All piping will be I.P.C. carbon steel.

In the event of increasing water level in the tanks due to pump shut-down, etc., a level control system will gradually shut-off water supply from Texaco via an inlet control valve. If the level continues to rise in the tank, next the Fusselman will gradually be shut-off by an inlet control valve. Finally, the level controller will shut-off the water supply from the central battery by an inlet control valve which will cause produced water to overflow from the skim water tank to the emergency pit. This will allow lead time prior to production being shut-in from the Unit.

A single pad mounted 5 MVA transformer feeding a lineup of 5 KV Class motor control center was assumed for the water injection pumps. The motor control center would be housed in a separate room in the pump house. 480 volt distribution for all facilities would come from pole top mounted distribution transformers at each facility feeding a lineup of motor control and distribution equipment.

No filters have been included in the estimate. However, an optional price will be provided. Orifice meters will be provided on both north and south trunk lines. The plant will be fenced-in with the central battery. The plant will contain area lighting and will utilize local contracts. Tanks will be internally coated.

6. Injection Water Distribution System (To Wells)

The waterflood pumps will be centrally located in the Unit. For lines 6" and greater in size, carbon steel poly-lined pipe will be used with a design pressure rating of 2000 psig. For lines less than 6" in size, fiberglass pipe with a 2000 psig design pressure rating will be used. These lines will all be buried 3' deep. No cathodic protection system will be required provided, however, that anytime the steel trunk line's path crosses another steel line, a 32# magnesium anode shall be installed (cost approximately $100 per anode).

7. Injection Well Hook-up/Metering Assembly

Each injection well will be provided with a prefabricated injection assembly. It will utilize screwed fittings and a 1" Halliburton turbine meter with totalizer. Control of the flow of water to each injection well will be accomplished at satellite injection manifolds.

8. Central Battery

The central battery will receive produced water and crude from each of the satellite batteries in the Unit. It will be located one-quarter mile south of State Highway 128 adjacent to the water injection plant. It will be manned eight hours per day, seven days per week. The crude is assumed to be 32° API gravity. The allowable BS&W content is 1%. Two 100% trains of treating will be provided to handle the crude. In-line booster pumps will be provided to boost pressure as required from the gathering system. With the exception of the produced fluid booster pumps, the pumps in the central battery will not have installed spares.

The earthen fire wall around the three storage tanks are sized for 1.5 times the total tankage volumes. All piping inside the central battery limits will be above ground on sleepers and will be I.P.C. carbon steel construction. Production gathering and injection water trunk lines will run north/south through the pipeway between the injection plant and the central battery. Electrical power service, motor control, etc. is common with the injection plant. A description of the system is provided in the injection plant section. The area of the central battery and the injection water plant will be fenced. A remote vent with a berm is included. The plant will contain area lighting. Four H_2S monitors and alarms will be provided with remote annunciation to the field office. Instrument air compressor will be supplied. Sweet fuel gas will be brought to the central battery via 2000' of 2" carbon steel line from the ARCO Wimberly Lease. This fuel will be used for blanket gas and chemelectric treater fuel. The central battery will utilize local controls. In the event of an ESD of the central battery, pressure will be allowed to build-up back to the satellites which will in turn shut in the satellites and individual wells. All vessels and tanks will be internally coated. It is assumed that the crude and gas purchasers will take custody at the central battery limits. No compression or sweetening has been allowed for.

9. Satellite Batteries

Skid mounted satellite batteries will be located at seven locations throughout the field. Each satellite will handle production from approximately 20 wells. Each well will have individual flowlines (flowline costs are included in the production gathering system). Manual well tests will be performed with two test separators. Each separator will handle approximately ten of the wells. However, all wells will be manifolded to each test separator. The group separator and the two test separators will dump oil and produced water into the production gathering system trunk lines. No blowcase has been provided; however, booster pumps will be provided at the central battery which will boost pressure as required in the gathering trunk lines from the satellite batteries. The gas purchaser will take custody of the gas at each satellite battery limit. No compression or sweetening has been included in the estimate. A remove vent has been included. No area lighting has been included. Piping inside the battery limits will be carbon steel construction and mounted above ground on sleepers. The batteries will utilize local controls. Net oil computers will be provided on each separator. All steel piping inside battery limits will be IPC (internally plastic coated). A visual alarm light will be provided. An instrument air compressor has been included.

10. Production Gathering System

The production gathering system consists of individual flow lines from each well to a satellite battery and a trunk line system from the satellite batteries to the central battery. One trunk line gathers production from the northern satellite batteries and one trunk line gathers production from the southern satellite batteries.

11. Data Acquisition System

A solar powered RTU will be mounted outdoors at each satellite battery to provide for group separator oil and water volumes. An RTU will be mounted outdoors at the central battery to provide for water volumes, LACT data, and 32 digital alarm points, which will remotely annunciate at the field office. A PC and printer will be supplied at the field office for alarm annunciation. An auto-dialer will be provided for automatic dial-up during unmanned periods. The system is radio based. Automatic well testing is part of the RTU base level automation. A separate PC-based system is planned to monitor production pumps and provide pump-off controls.

UNIT BOUNDARY

The unit includes tracts which have a reasonable chance of contributing economically recoverable reserves to the waterflood. The tracts removed from Hickman's original study area have low primary recoveries or plugged wellbores that are not currently usable by the unit. Table 11 lists the tracts that were included. The revised unit area contains approximately 5360 acres. The following lists the tracts removed from Hickman's area of study:

Operator	Lease	Location	Cum. Recovery MBO (1-1-90)
UTP	2 States Stuart #1	L-11	24.1
Rhodes	Corrigan #1 (SWD)	M-11	8.4
Rice	SWD Well #B-12	G-12	0.4
Amoco	Langlie B #5 & #6	L,M-14	1.0
Westbrook	Buffington C #1	M-18	26.0
Leeser	El Paso Fed #2	N-23	75.7
UTP	Sunray #1	K-26	4.5
ARCO	Gregory Fed #1	I-35	37.8
Fina	Ginsberg #13	K-31	10.0
Texaco	Riggs A #3	C-1	24.6
Texaco	Riggs B #7	H-1	93.3
Maralo	Self #5 & #6	D,E-6	167.0
Total			472.8

UNITIZED INTERVAL

The vertical limits of the unitized interval will extend from the top of the Justis Blinebry Field to the base of the Justis Tubb/Drinkard Field. The NMOCD defined the top of the Justis Blinebry in 1961 as 4980' on the electrical log of Amerada's Ida Wimberley #4 (Figure 15). Previously, the NMOCD had designated the top of the Justis Drinkard at 5784' of the log from Amerada's Ida Wimberley #5. The base of the Tubb/Drinkard rests on top of the Abo at 6180' in the Wimberley #4.

PARTICIPATION PARAMETERS

Potential tract participation parameters are assembled in Table 1 of Appendix G. The active well count is as of March 1990. A cross reference between the South Justis Unit Technical Committee tract numbers and the Hickman study's tract numbers is provided. A participation parameter table sorted by working interest owner will be generated after the working interest of each individual tract has been collected and verified.

Individual tract production plots are included in Appendix H. Production histories (BOPD, BWPD, MCFD, and the GOR) were obtained from NMOCD supplied data and down-loaded to a personal computer. A graphics package was used to plot data from 1970 through March 1990. The historical gas-oil ratios were used to calculate an oil production rate equivalent to 2 BOE per day per active well. A gas equivalency of 10 MCF/BO was used. The production history indicates a solution gas drive reservoir, and a constant percent decline analysis was performed to determine remaining oil and gas reserves for each tract. Results are tabulated on each of the tract production plots.

TABLES

TABLE 1
SOUTH JUSTIS UNIT
YEARLY PRODUCTION HISTORY BY RESERVOIR

RESERVOIR	YEAR	OIL (BBLS)	GAS (MCF)	WATER (BBLS)	UNIT
BB	1958	17,921	4,000	560	2
	1959	168,299	570,320	10,485	2
	1960	530,219	977,660	46,578	2
	1961	716,434	1,588,416	81,801	2
	1962	829,263	1,949,091	106,988	2
	1963	1,105,396	2,488,945	176,540	2
	1964	1,273,399	3,333,577	321,207	2
	1965	1,307,973	4,030,262	456,326	2
	1966	1,529,389	5,226,001	460,693	2
	1967	1,433,665	6,927,439	455,679	2
	1968	1,194,679	7,290,770	465,268	2
	1969	1,195,204	7,811,783	739,020	2
	1970	1,011,869	8,843,009	738,588	2
	1971	990,776	8,950,735	772,187	2
	1972	926,911	8,107,564	672,877	2
	1973	781,405	7,547,967	574,621	2
	1974	803,756	7,312,408	633,012	2
	1975	703,321	7,149,412	617,247	2
	1976	581,923	5,950,691	603,571	2
	1977	470,377	4,912,336	528,074	2
	1978	457,472	4,514,951	550,801	2
	1979	401,412	4,166,282	504,641	2
	1980	369,847	4,080,085	558,592	2
	1981	336,852	3,653,313	490,986	2
	1982	288,589	3,364,234	458,231	2
	1983	265,813	3,108,502	403,099	2
	1984	238,973	2,813,743	370,799	2
	1985	222,067	2,616,449	363,905	2
	1986	216,097	2,486,442	410,360	2
	1987	203,989	2,472,166	492,988	2
	1988	180,129	2,140,054	363,891	2
	1989	166,829	1,938,000	393,711	2
*TOTAL BB		20,920,248	138,326,607	13,823,326	
TD	1957	978	0	0	2
	1958	111,205	11,449	9	2
	1959	405,335	403,220	21,048	2
	1960	697,297	1,232,571	61,456	2
	1961	780,020	2,169,483	170,377	2
	1962	714,250	2,326,345	149,879	2
	1963	632,991	2,325,001	187,442	2
	1964	590,251	2,649,629	221,626	2
	1965	544,757	2,489,112	212,575	2

TABLE 1
SOUTH JUSTIS UNIT
YEARLY PRODUCTION HISTORY BY RESERVOIR

RESERVOIR	YEAR	OIL (BBLS)	GAS (MCF)	WATER (BBLS)	UNIT
TD	1966	530,926	2,292,735	237,088	2
	1967	442,380	2,154,574	226,566	2
	1968	312,040	1,931,284	226,950	2
	1969	213,933	1,409,216	178,681	2
	1970	124,660	903,256	177,759	2
	1971	133,093	1,079,379	127,894	2
	1972	118,587	1,006,486	119,535	2
	1973	121,986	1,200,549	108,328	2
	1974	109,816	967,439	80,347	2
	1975	93,247	857,689	92,006	2
	1976	123,245	1,404,235	163,295	2
	1977	108,158	1,204,671	133,817	2
	1978	104,050	1,141,245	130,066	2
	1979	80,365	975,299	132,181	2
	1980	83,454	835,026	169,841	2
	1981	83,324	742,827	146,939	2
	1982	77,350	706,724	171,460	2
	1983	74,721	655,493	172,506	2
	1984	70,994	618,691	214,708	2
	1985	68,793	479,779	193,220	2
	1986	64,403	563,668	182,645	2
	1987	58,066	484,176	173,094	2
	1988	50,259	396,278	197,908	2
	1989	48,623	429,144	172,070	2
*TOTAL TD		7,773,557	38,046,673	4,953,316	
TOTAL		28,693,805	176,373,280	18,776,642	

TABLE 2
SOUTH JUSTIS UNIT
YEARLY PRODUCTION HISTORY
COMBINED RESERVOIRS

YEAR	OIL (BBLS)	GAS (MCF)	WATER (BBLS)	UNIT
1957	978	0	0	2
1958	129,126	15,449	569	2
1959	573,634	973,540	31,533	2
1960	1,227,516	2,210,231	108,034	2
1961	1,496,454	3,757,899	252,178	2
1962	1,543,513	4,275,436	256,867	2
1963	1,738,387	4,813,946	363,982	2
1964	1,863,650	5,983,206	542,833	2
1965	1,852,730	6,519,374	668,901	2
1966	2,060,315	7,518,736	697,781	2
1967	1,876,045	9,082,013	682,245	2
1968	1,506,719	9,222,054	692,218	2
1969	1,409,137	9,220,999	917,701	2
1970	1,136,529	9,746,265	916,347	2
1971	1,123,869	10,030,114	900,081	2
1972	1,045,498	9,114,050	792,412	2
1973	903,391	8,748,516	682,949	2
1974	913,572	8,279,847	713,359	2
1975	796,568	8,007,101	709,253	2
1976	705,168	7,354,926	766,866	2
1977	578,535	6,117,007	661,891	2
1978	561,522	5,656,196	680,867	2

TABLE 2
SOUTH JUSTIS UNIT
YEARLY PRODUCTION HISTORY
COMBINED RESERVOIRS

YEAR	OIL (BBLS)	GAS (MCF)	WATER (BBLS)	UNIT
1979	481,777	5,141,581	636,822	2
1980	453,301	4,915,111	728,433	2
1981	420,176	4,396,140	637,925	2
1982	365,939	4,070,958	629,691	2
1983	340,534	3,763,995	575,605	2
1984	309,967	3,432,434	585,507	2
1985	290,860	3,096,228	557,125	2
1986	280,500	3,050,110	593,005	2
1987	262,055	2,956,342	666,082	2
1988	230,388	2,536,332	561,799	2
1989	215,452	2,367,144	565,781	2
TOTAL	28,693,805	176,373,280	18,776,642	

TABLE 3
SOUTH JUSTIS UNIT
CUMULATIVE PRODUCTION BY WELL
THROUGH 1989

OPERATOR	RESERVOIR	WELL	CUM OIL	CUM GAS	CUM WATER	UNIT	ARCO TRACT
AMER EXPL	BB	EPASO F 1	159,682	542,340	412,869	2	32
*TOTAL RESERVOIR BB			159,682	542,340	412,869		
*TOTAL OPERATOR AMER EXPL			159,682	542,340	412,869		
AMER HESS	BB	IDA WM 10	257,626	1,379,481	109,601	2	34
		IDA WM 11	171,837	1,009,263	50,393	2	34
		IDA WM 13	71,078	219,517	40,901	2	34
		IDA WM 14	70,434	603,573	33,067	2	34
		IDA WM 15	111,971	837,230	42,325	2	34
		IDA WM 16	79,544	750,604	43,307	2	34
		IDA WM 17	109,893	2,996,052	65,963	2	34
		IDA WM 9	146,296	1,808,762	74,950	2	34
		STUART 1	217,403	1,190,260	271,918	2	17
*TOTAL RESERVOIR BB			1,236,082	10,794,742	732,425		
	TD	IDA WM 10	73,899	229,818	26,157	2	34
		IDA WM 3	141,168	214,182	66,883	2	34
		IDA WM 4	167,984	696,189	230,357	2	34
		IDA WM 5	81,331	574,126	21,995	2	34
		IDA WM 6	126,679	637,633	52,204	2	34
		IDA WM 7	74,647	667,434	41,413	2	34
		IDA WM 8	100,646	478,294	29,447	2	34
		IDA WM 9	75,487	322,470	18,297	2	34
*TOTAL RESERVOIR TD			841,841	3,820,146	486,753		
*TOTAL OPERATOR AMER HESS			2,077,923	14,614,888	1,219,178		
AMOCO	BB	ST AJ 5	125,133	534,913	54,679	2	46
		ST AJ 6	95,204	200,299	88,685	2	46
*TOTAL RESERVOIR BB			220,337	735,212	143,364		
	TD	ST AJ 5	16,062	22,546	7,794	2	46
*TOTAL RESERVOIR TD			16,062	22,546	7,794		
*TOTAL OPERATOR AMOCO			236,399	757,758	151,158		
ARCO	BB	CARL AF 1	77,335	478,854	68,256	2	31
		CARL AF 2	96,420	293,998	87,055	2	31
		CARL F 1	158,592	2,092,022	55,020	2	41
		CARL F 2	196,857	2,289,458	77,355	2	41
		CARLSON 1	154,705	567,012	150,794	2	39
		CARLSON 2	105,160	499,036	186,669	2	39

TABLE 3
SOUTH JUSTIS UNIT
CUMULATIVE PRODUCTION BY WELL
THROUGH 1989

OPERATOR	RESERVOIR	WELL	CUM OIL	CUM GAS	CUM WATER	UNIT	ARCO TRACT
ARCO	BB	ETON NW14	158,459	417,761	65,582	2	10
		ETON NW15	89,004	275,627	192,316	2	9A
		ETON NW16	178,662	829,928	68,853	2	9A
		ETON NW17	73,263	275,166	85,263	2	9A
		ETON SE12	80,289	308,011	52,392	2	15
		ETON SE13	26,400	136,490	33,086	2	14
		ETON SW 8	197,564	1,425,722	56,869	2	12
		ETON SW 9	156,764	1,220,800	44,762	2	11
		ETON SW10	229,217	1,147,773	64,255	2	13
		ETON SW11	226,014	1,321,228	113,347	2	11
		FED 35 1	139,318	237,902	61,116	2	47
		JAL 2	252,947	1,056,404	90,495	2	5
		JAL 3	97,531	1,989,674	99,301	2	5
		JUST F 2	182,244	656,225	25,437	2	8
		JUST F 3Y	98,403	494,211	60,453	2	8
		LGL AF 1	244,496	1,136,217	36,062	2	20
		LGL AF 2	287,161	1,391,336	24,134	2	20
		LGL B 1	206,683	909,092	74,886	2	6
		LGL B 2	119,861	2,422,575	133,956	2	6
		LGL BF 1	121,386	512,589	9,796	2	19
		LGL BF 2	130,268	475,644	142,685	2	19
		LGL F 1	285,320	2,135,722	37,176	2	21
		LGL F 2	291,912	1,632,813	65,996	2	21
		STATE Y 3	120,229	2,046,708	24,591	2	43
		STATE Y 6	114,216	708,088	24,424	2	43
		STATE Y 7	171,307	1,382,706	13,957	2	43
		STATE Y 8	8,710	89,758	47	2	43
		STUART 1	100,110	327,712	86,551	2	4
		STUT AWN2	139,821	487,181	177,052	2	16
		WIMB WN 3	122,585	2,380,481	25,146	2	26
		WIMB WN 5	102,411	1,726,726	36,907	2	26
		WIMB WN 6	124,627	503,488	12,022	2	26
		WIMB WN 7	271,703	1,913,197	47,010	2	26
		WIMB WN 8	219,176	772,810	223,016	2	26
		WIMB WN 9	84,219	297,057	47,186	2	26
		WIMB WN10	146,131	554,720	376,596	2	26
		WIMB 2	240,458	2,513,060	93,847	2	29
		WIMB 3	240,168	2,318,326	115,783	2	30
*TOTAL RESERVOIR BB			6,868,106	46,651,308	3,567,502		
	TD	CARL AF 1	54,618	253,688	24,488	2	31
		CARL AF 2	45,033	111,141	167,944	2	31
		CARL F 1	75,097	238,426	2,882	2	41
		CARL F 2	80,267	354,705	36,802	2	41

TABLE 3
SOUTH JUSTIS UNIT
CUMULATIVE PRODUCTION BY WELL
THROUGH 1989

OPERATOR	RESERVOIR	WELL	CUM OIL	CUM GAS	CUM WATER	UNIT	ARCO TRACT
ARCO	TD	CARLSON 1	2,171	4,741	46,615	2	39
		ETON NW14	23,301	149,114	9,009	2	10
		ETON NW15	13,747	20,349	23,421	2	9B
		ETON SE12	26,273	60,588	7,888	2	15
		ETON SW 8	76,000	305,173	34,329	2	12
		ETON SW 9	17,752	127,230	11,072	2	11
		ETON SW10	43,399	327,121	52,122	2	13
		ETON SW11	77,319	371,885	42,201	2	11
		FED 35 1	14,238	0	0	2	47
		JA STUT 1	17,957	29,258	2,348	2	4
		JAL 2	166,346	1,201,533	69,162	2	5
		JAL 3	99,718	395,278	96,941	2	5
		LGL AF 1	31,651	64,543	14,506	2	20
		LGL B 1	86,068	497,710	43,935	2	6
		LGL B 2	73,008	635,928	47,819	2	6
		LGL BF 1	2,540	7,984	1,101	2	19
		LGL F 1	10,276	14,534	9,142	2	21
		STATE Y 5	69,083	1,148,078	908	2	43
		STATE Y 8	80,827	217,548	81,813	2	43
		STATE Y 9	27,910	573,941	309	2	43
		STATE Y10	17,661	321,787	15,852	2	43
		STUT AWN2	23,533	61,998	27,676	2	16
		WIMB WN 2	154,243	882,428	38,660	2	26
		WIMB WN 3	121,628	384,357	25,088	2	26
		WIMB WN 4	99,293	256,920	33,666	2	26
		WIMB WN 6	60,094	552,573	17,672	2	26
		WIMB WN 7	51,065	207,877	31,688	2	26
		WIMB WN10	586	2,076	1,765	2	26
		WIMB WN11	9,013	49,366	30,085	2	26
		WIMB 2	51,508	502,823	35,391	2	29
		WIMB 3	129,938	919,171	100,208	2	30
*TOTAL RESERVOIR TD			1,933,161	11,251,872	1,184,508		
*TOTAL OPERATOR ARCO			8,801,267	57,903,180	4,752,010		
BRUNO	BB	CARLB25 2	182,868	1,589,587	34,099	2	44
		CARLB25 5	161,947	1,169,338	13,950	2	44
		CARLB25 6	80,145	1,223,418	76,328	2	44
		CARLB26 5	184,615	692,157	98,177	2	40
		CARLB26 6	167,622	546,573	25,272	2	40
		CARLB26 7	39,903	108,152	48,458	2	40
*TOTAL RESERVOIR BB			817,100	5,329,225	296,284		
	TD	CARLB25 2	94,633	543,621	28,680	2	44

TABLE 3
SOUTH JUSTIS UNIT
CUMULATIVE PRODUCTION BY WELL
THROUGH 1989

OPERATOR	RESERVOIR	WELL	CUM OIL	CUM GAS	CUM WATER	UNIT	ARCO TRACT
BRUNO	TD	CARLB25 3	86,369	313,689	106,525	2	44
		CARLB25 4	169,137	613,460	73,182	2	44
		CARLB25 5	135,351	415,485	1,845	2	44
		CARLB26 5	74,613	297,847	156,008	2	40
		CARLB26 6	84,527	245,732	1,150	2	40
*TOTAL RESERVOIR TD			644,630	2,429,834	367,390		
*TOTAL OPERATOR BRUNO			1,461,730	7,759,059	663,674		
CHEVRON	BB	JA STUT 8	56,880	93,183	211,583	2	1
		L MCBUF 4	118,629	693,742	30,835	2	24
		L MCBUF 5	133,619	2,367,950	14,409	2	24
		L MCBUF 6	221,727	2,001,522	16,878	2	24
		L MCBUF 9	13,782	1,078,711	4,448	2	24
		L MCBUF10	163,301	916,879	29,136	2	24
		L MCBUF12	131,005	642,803	35,949	2	24
		L MCBUF13	187,879	2,543,080	39,282	2	24
		L MCBUF14	138,463	1,100,480	10,308	2	24
		L MCBUF15	20,422	1,954,705	9,979	2	24
		RAMSY B 1	70,327	167,475	464,713	2	50
		RAMSY B 6	217,097	588,241	124,927	2	50
		RAMSY B 7	196,701	748,043	198,260	2	50
		RAMSY B 8	196,336	887,181	73,192	2	50
		RAMSY B 9	100,810	560,439	209,517	2	50
		RAMSY B10	158,188	688,763	175,380	2	50
		RAMSY B11	93,149	432,718	337,937	2	50
		RAMSY B12	215,256	604,623	68,042	2	50
		RAMSY F 4	225,558	1,067,674	68,386	2	49
		RAMSY F 5	119,807	783,482	126,148	2	49
		RAMSY F 6	245,436	3,059,053	255,613	2	49
		RAMSY F 7	111,279	475,422	181,358	2	49
		RAMSY F 9	173,323	1,056,115	122,514	2	49
		RAMSY F10	212,939	470,332	250,717	2	49
		RAMSY F11	183,543	647,429	80,812	2	49
		RAMSY F12	127,338	413,260	128,711	2	49
*TOTAL RESERVOIR BB			3,832,794	26,043,305	3,269,034		
	TD	JA STUT 8	48,505	109,407	233,325	2	1
		L MCBUF 3	42,752	317,258	22,488	2	24
		L MCBUF 4	8,978	94,337	0	2	24
		L MCBUF 7	107,693	445,516	7,066	2	24
		L MCBUF10	114,466	538,846	10,838	2	24
		L MCBUF11	14,832	120,161	4,706	2	24
		L MCBUF14	11,952	58,968	3,783	2	24

TABLE 3
SOUTH JUSTIS UNIT
CUMULATIVE PRODUCTION BY WELL
THROUGH 1989

OPERATOR	RESERVOIR	WELL	CUM OIL	CUM GAS	CUM WATER	UNIT	ARCO TRACT
CHEVRON	TD	RAMSY B 6	53,166	108,350	52,793	2	50
		RAMSY B 7	148,290	668,052	63,852	2	50
		RAMSY B 8	132,634	528,655	17,508	2	50
		RAMSY B 9	18,573	25,633	1,212	2	50
		RAMSY B10	13,031	17,186	1,551	2	50
		RAMSY B11	6,980	8,016	4,791	2	50
		RAMSY B12	10,887	15,654	38,960	2	50
		RAMSY F 4	55,442	178,952	12,777	2	49
		RAMSY F 5	50,246	105,105	37,075	2	49
		RAMSY F 6	45,784	142,708	6,494	2	49
		RAMSY F 7	32,832	143,300	6,392	2	49
		RAMSY F 9	55,689	262,245	66,132	2	49
		RAMSY F11	20,764	218,096	3,312	2	49
		RAMSY F12	21,594	35,021	6,242	2	49
		RAMSY F13	26,289	104,772	73,535	2	49
*TOTAL RESERVOIR TD			1,041,379	4,246,238	674,832		
*TOTAL OPERATOR CHEVRON			4,874,173	30,289,543	3,943,866		
FINA	BB	GIBRG F 8	82,770	94,433	103,267	2	51
		GIBRG F 9	123,496	277,308	185,865	2	51
		GIBRG F10	123,624	265,419	124,514	2	51
		GIBRG F11	77,190	666,378	92,841	2	51
*TOTAL RESERVOIR BB			407,080	1,303,538	506,487		
	TD	GIBRG F 9	11,758	64,182	32,089	2	51
		GIBRG F11	55,462	121,580	32,132	2	51
*TOTAL RESERVOIR TD			67,220	185,762	64,221		
*TOTAL OPERATOR FINA			474,300	1,489,300	570,708		
PAC E	BB	CARLA23 1	21,310	70,232	49,063	2	27
		CARLB13 5	78,923	365,118	21,614	2	25
		CARLB13 6	112,388	709,483	98,210	2	25
		CARLB13 7	117,756	540,346	62,273	2	25
		CARLB13 8	7,616	63,019	27,622	2	25
*TOTAL RESERVOIR BB			337,993	1,748,198	258,782		
	TD	CARLB13 5	73,300	580,309	15,521	2	25
		CARLB13 8	5,648	54,007	10,223	2	25
*TOTAL RESERVOIR TD			78,948	634,316	25,744		
*TOTAL OPERATOR PAC E			416,941	2,382,514	284,526		

TABLE 3
SOUTH JUSTIS UNIT
CUMULATIVE PRODUCTION BY WELL
THROUGH 1989

OPERATOR	RESERVOIR	WELL	CUM OIL	CUM GAS	CUM WATER	UNIT	ARCO TRACT
TEXACO	BB	A COAT C8	38,435	719,116	14,655	2	35
		A COAT C9	13,808	363,029	11,260	2	35
		A COATC10	52,600	1,440,729	33,507	2	35
		A COATC14	113,413	1,389,908	35,800	2	35
		A COATC16	41,790	604,810	57,799	2	35
		A COATC18	190,302	1,046,057	102,755	2	35
		A COATC19	100,765	795,283	32,574	2	35
		A COATC21	67,629	539,144	7,574	2	35
		A COATC22	134,077	546,837	21,572	2	35
		A COATC23	139,163	742,382	34,201	2	35
		A COATC24	148,743	938,859	9,713	2	35
		A COATC25	91,554	572,981	14,106	2	35
		A COATC26	128,166	1,497,024	13,967	2	35
		A COATC27	144,111	2,888,834	95,845	2	35
		A COATC28	48,250	684,830	36,899	2	35
		A COATD03	110,722	414,875	28,323	2	36
		HOBBS A 6	142,704	442,467	56,599	2	45
		HOBBS A 7	153,465	400,355	101,350	2	45
		LCRUCS C1	303,983	1,546,594	256,785	2	28
		PENNEYF 6	50,200	93,503	13,651	2	37
		PENNEYF 7	55,222	87,605	46,924	2	37
		RIGGS B 6	147,303	702,407	225,406	2	52
		RIGGS B 8	136,946	511,461	286,356	2	52
*TOTAL RESERVOIR BB			2,553,351	18,969,090	1,537,621		
	TD	A COATC 6	4,183	174,347	5,182	2	35
		A COATC 7	9,981	58,181	12,397	2	35
		A COATC 8	86,899	176,781	67,825	2	35
		A COATC 9	101,948	298,959	17,790	2	35
		A COATC11	281,804	1,943,939	244,156	2	35
		A COATC12	242,582	1,610,270	521,836	2	35
		A COATC14	181,826	813,406	44,149	2	35
		A COATC16	154,507	1,364,263	77,701	2	35
		A COATC18	70,631	223,522	50,773	2	35
		A COATC19	24,617	296,586	11,371	2	35
		A COATC21	238	1,003	21,605	2	35
		A COATC23	94,821	345,080	21,686	2	35
		A COATC24	56,417	236,601	4,503	2	35
		A COATC25	93,107	646,866	11,617	2	35
		A COATD 2	137,800	1,912,292	393,373	2	36
		HOBBS A 6	77,686	336,226	24,378	2	45
		HOBBS A 7	81,099	212,959	37,547	2	45
		L BUF B 2	1,497	2,723	2,325	2	38
		LCRUCS C1	93,403	246,872	27,713	2	28

TABLE 3
SOUTH JUSTIS UNIT
CUMULATIVE PRODUCTION BY WELL
THROUGH 1989

OPERATOR	RESERVOIR	WELL	CUM OIL	CUM GAS	CUM WATER	UNIT	ARCO TRACT
TEXACO	TD	PENNY F 4	18,961	19,632	14,505	2	37
		PENNY F 6	18,994	11,507	1,526	2	37
		RIGGS B 8	6,417	11,899	10,465	2	52
*TOTAL RESERVOIR TD			1,839,418	10,943,914	1,624,423		
*TOTAL OPERATOR TEXACO			4,392,769	29,913,004	3,162,044		
UN TEX	BB	BLOCKER 4	46,339	967,730	27,410	2	23
		BLOCKER 5	244,357	1,763,595	25,626	2	23
		BLOCKER 6	161,364	1,228,244	23,307	2	23
		BLOCKER 7	196,223	1,604,680	49,547	2	23
		BUFFTN B3	107,894	485,715	49,172	2	38
		BUFFTN B4	64,251	119,160	49,712	2	38
		CARL A 1	20,751	168,672	10,741	2	42
		CARL A 3	250,426	2,715,201	97,657	2	42
		CARL A 4	228,040	2,358,534	152,417	2	42
		CARL A 5	146,528	979,491	59,789	2	42
		CARL A 6	149,716	1,153,721	50,685	2	42
		CARL B 1	260,597	1,497,289	106,889	2	33
		CARL B 2	269,457	1,337,837	62,894	2	33
		GRERY AF1	133,314	364,668	314,550	2	48
		JUSTIS 1	133,057	434,781	22,235	2	7
		JUSTIS 2	122,989	817,718	24,484	2	7
		LGL B 1	362,020	2,142,775	124,872	2	22
		LGL B 2	348,696	2,780,473	129,601	2	22
		LGL D 1	213,508	678,068	350,889	2	18
		LGL D 2	165,912	444,285	370,634	2	18
		O STUART1	4,067	0	444	2	3
		O STUART2	78,631	253,857	177,507	2	3
		STUART 6	342,650	1,165,469	213,540	2	2
		STUART 7	274,758	521,493	81,972	2	2
		STUART 8	162,178	226,193	522,384	2	2
*TOTAL RESERVOIR BB			4,487,723	26,209,649	3,098,958		
	TD	BLOCKER 4	71,629	251,498	37,716	2	23
		BLOCKER 5	38,095	156,109	6,260	2	23
		BLOCKER 6	76,022	379,117	7,168	2	23
		BLOCKER 7	19,827	99,749	67,571	2	23
		BUFFTN B3	49,045	97,321	18,536	2	38
		BUFFTN B4	17,897	39,489	2,771	2	38
		CARL A 1	77,165	109,016	15,354	2	42
		CARL A 3	64,559	173,384	48,961	2	42
		CARL A 4	92,813	576,773	41,865	2	42
		CARL A 5	83,157	238,719	20,387	2	42

TABLE 3
SOUTH JUSTIS UNIT
CUMULATIVE PRODUCTION BY WELL
THROUGH 1989

OPERATOR	RESERVOIR	WELL	CUM OIL	CUM GAS	CUM WATER	UNIT	ARCO TRACT
UN TEX	TD	CARL AF 2	23,172	31,829	264	2	42
		CARL AF 6	24,519	230,648	607	2	42
		CARL B 1	61,706	360,511	30,622	2	33
		CARL B 2	124,686	428,220	26,949	2	33
		JUSTIS 1	79,303	201,937	19,600	2	7
		JUSTIS 2	65,272	171,907	16,521	2	7
		LGL B 1	88,232	240,260	10,579	2	22
		LGL B 2	52,852	104,591	28,081	2	22
		O STUT 1	5,380	7,548	430	2	3
		O STUT 2	23,742	98,664	76,412	2	3
		STUART 6	76,085	234,701	18,113	2	2
		STUART 7	95,740	280,054	22,884	2	2
*TOTAL RESERVOIR TD			1,310,898	4,512,045	517,651		
*TOTAL OPERATOR UN TEX			5,798,621	30,721,694	3,616,609		
TOTAL			28,693,805	176,373,280	18,776,642		

TABLE 4

SOUTH JUSTIS UNIT
PRIMARY RECOVERY SUMMARY
BLINEBRY AND TUBB/DRINKARD RESERVOIRS

Cumulative Oil Production (1-1-90)	28,693.8 MBO
Cumulative Gas Production (1-1-90)	176,373.3 MMCF
Cumulative Water Production (1-1-90)	18,776.6 MBW
Remaining Primary Oil (1-1-90)	1,668 MBO
Remaining Primary Gas (1-1-90)	17,981 MMCF
Ultimate Primary Oil	30,361 MBO
Ultimate Primary Gas	194,354 MMCF
Estimated Original OOIP	207,952 MBO
Primary Recovery Factor	.146

TABLE 5
SOUTH JUSTIS AREA
RUNNING TOTAL WATER & OIL CUMS (BBLS)
FOR BLINEBRY WELLS RANKED BY
HIGHEST CUM WATER PRODUCTION

UNIT	ARCO TRACT	OPERATOR	WELL	CUM WATER	CUM OIL	WATER % OF TOTAL	RUNNING TOTAL WATER	CUM % WTR	RUNNING TOTAL OIL	CUM % OIL
2	00	MARALO	MD SELF 6	694,300	80,068	4.41	694300	4.41	80068	.37
2	2	UN TEX	STUART 8	522,384	162,178	3.32	1216684	7.73	242246	1.13
2	50	CHEVRON	RAMSY B 1	464,713	70,327	2.95	1681397	10.68	312573	1.46
2	00	LEESER	EPASO F 2	463,425	75,759	2.95	2144822	13.63	388332	1.81
2	32	AMER EXPL	EPASO F 1	412,869	159,682	2.62	2557691	16.25	548014	2.56
2	26	ARCO	WIMB WN10	376,596	146,131	2.39	2934287	18.64	694145	3.24
2	18	UN TEX	LGL D 2	370,634	165,912	2.36	3304921	21.00	860057	4.02
2	4	ARCO	STUART 1	358,469	317,513	2.28	3663390	23.28	1177570	5.50
2	18	UN TEX	LGL D 1	350,889	213,508	2.23	4014279	25.51	1391078	6.50
2	50	CHEVRON	RAMSY B11	337,937	93,149	2.15	4352216	27.66	1484227	6.94
2	48	UN TEX	GRERY AF1	314,550	133,314	2.00	4666766	29.66	1617541	7.56
2	52	TEXACO	RIGGS B 8	286,356	136,946	1.82	4953122	31.48	1754487	8.20
2	22	UN TEX	LGL B 2	263,557	468,557	1.68	5216679	33.16	2223044	10.39
2	28	TEXACO	LCRUCS C1	256,785	303,983	1.63	5473464	34.79	2527027	11.81
2	49	CHEVRON	RAMSY F 6	255,613	245,436	1.62	5729077	36.41	2772463	12.96
2	49	CHEVRON	RAMSY F10	250,717	212,939	1.59	5979794	38.00	2985402	13.96
2	52	TEXACO	RIGGS B 6	225,406	147,303	1.43	6205200	39.43	3132705	14.65
2	26	ARCO	WIMB WN 8	223,016	219,176	1.42	6428216	40.85	3351881	15.67
2	2	UN TEX	STUART 6	213,540	342,650	1.36	6641756	42.21	3694531	17.27
2	1	CHEVRON	JA STUT 8	211,583	56,880	1.34	6853339	43.55	3751411	17.54
2	50	CHEVRON	RAMSY B 9	209,517	100,810	1.33	7062856	44.88	3852221	18.01
2	22	UN TEX	LGL B 1	199,758	568,703	1.27	7262614	46.15	4420924	20.67
2	50	CHEVRON	RAMSY B 7	198,260	196,701	1.26	7460874	47.41	4617625	21.59
2	9A	ARCO	ETON NW15	192,316	89,004	1.22	7653190	48.63	4706629	22.01
2	00	MARALO	MD SELF 5	187,282	86,696	1.19	7840472	49.82	4793325	22.42
2	39	ARCO	CARLSON 2	186,669	105,160	1.19	8027141	51.01	4898485	22.91
2	51	FINA	GIBRG F 9	185,865	123,496	1.18	8213006	52.19	5021981	23.49
2	49	CHEVRON	RAMSY F 7	181,358	111,279	1.15	8394364	53.34	5133260	24.01
2	3	UN TEX	O STUART2	177,507	78,631	1.13	8571871	54.47	5211891	24.38
2	16	ARCO	STUT AWN2	177,052	139,821	1.13	8748923	55.60	5351712	25.03
2	50	CHEVRON	RAMSY B10	175,380	158,188	1.11	8924303	56.71	5509900	25.77
2	00	TEXACO	RIGGS B 7	166,130	93,382	1.06	9090433	57.77	5603282	26.21
2	42	UN TEX	CARL A 4	152,417	228,040	.97	9242850	58.74	5831322	27.28
2	39	ARCO	CARLSON 1	150,794	154,705	.96	9393644	59.70	5986027	28.00
2	19	ARCO	LGL BF 2	142,685	130,268	.91	9536329	60.61	6116295	28.61
2	49	CHEVRON	RAMSY F12	128,711	127,338	.82	9665040	61.43	6243633	29.21
2	00	C RHODES	CORRGN 1	126,853	8,392	.81	9791893	62.24	6252025	29.25
2	49	CHEVRON	RAMSY F 5	126,148	119,807	.80	9918041	63.04	6371832	29.81
2	50	CHEVRON	RAMSY B 6	124,927	217,097	.79	10042968	63.83	6588929	30.82
2	51	FINA	GIBRG F10	124,514	123,624	.79	10167482	64.62	6712553	31.40
2	49	CHEVRON	RAMSY F 9	122,514	173,323	.78	10289996	65.40	6885876	32.21
2	30	ARCO	WIMB 3	115,783	240,168	.74	10405779	66.14	7126044	33.33
2	00	UN TEX	SUNRAY 1	114,258	4,555	.73	10520037	66.87	7130599	33.35

TABLE 5
SOUTH JUSTIS AREA
RUNNING TOTAL WATER & OIL CUMS (BBLS)
FOR BLINEBRY WELLS RANKED BY
HIGHEST CUM WATER PRODUCTION

UNIT	ARCO TRACT	OPERATOR	WELL	CUM WATER	CUM OIL	WATER % OF TOTAL	RUNNING TOTAL WATER	CUM % WTR	RUNNING TOTAL OIL	CUM % OIL
2	11	ARCO	ETON SW11	113,347	226,014	.72	10633384	67.59	7356613	34.41
2	34	AMER HESS	IDA WM 10	109,601	257,626	.70	10742985	68.29	7614239	35.61
2	33	UN TEX	CARL B 1	106,889	260,597	.68	10849874	68.97	7874836	36.83
2	51	FINA	GIBRG F 8	103,267	82,770	.66	10953141	69.63	7957606	37.22
2	35	TEXACO	A COATC18	102,755	190,302	.65	11055896	70.28	8147908	38.11
2	45	TEXACO	HOBBS A 7	101,350	153,465	.64	11157246	70.92	8301373	38.83
2	5	ARCO	JAL 3	99,301	97,531	.63	11256547	71.55	8398904	39.29
2	25	PAC E	CARLB13 6	98,210	112,388	.62	11354757	72.17	8511292	39.82
2	40	BRUNO	CARLB26 5	98,177	184,615	.62	11452934	72.79	8695907	40.68
2	42	UN TEX	CARL A 3	97,657	250,426	.62	11550591	73.41	8946333	41.85
2	35	TEXACO	A COATC27	95,845	144,111	.61	11646436	74.02	9090444	42.52
2	29	ARCO	WIMB 2	93,847	240,458	.60	11740283	74.62	9330902	43.64
2	51	FINA	GIBRG F11	92,841	77,190	.59	11833124	75.21	9408092	44.00
2	5	ARCO	JAL 2	90,495	252,947	.58	11923619	75.79	9661039	45.18
2	46	AMOCO	ST AJ 6	88,685	95,204	.56	12012304	76.35	9756243	45.63
2	31	ARCO	CARL AF 2	87,055	96,420	.55	12099359	76.90	9852663	46.08
2	9A	ARCO	ETON NW17	85,263	73,263	.54	12184622	77.44	9925926	46.42
2	2	UN TEX	STUART 7	81,972	274,758	.52	12266594	77.96	10200684	47.70
2	49	CHEVRON	RAMSY F11	80,812	183,543	.51	12347406	78.47	10384227	48.56
2	41	ARCO	CARL F 2	77,355	196,857	.49	12424761	78.96	10581084	49.48
2	44	BRUNO	CARLB25 6	76,328	80,145	.49	12501089	79.45	10661229	49.85
2	34	AMER HESS	IDA WM 9	74,950	146,296	.48	12576039	79.93	10807525	50.53
2	50	CHEVRON	RAMSY B 8	73,192	196,336	.47	12649231	80.40	11003861	51.45
2	9A	ARCO	ETON NW16	68,853	178,662	.44	12718084	80.84	11182523	52.29
2	49	CHEVRON	RAMSY F 4	68,386	225,558	.43	12786470	81.27	11408081	53.34
2	31	ARCO	CARL AF 1	68,256	77,335	.43	12854726	81.70	11485416	53.70
2	50	CHEVRON	RAMSY B12	68,042	215,256	.43	12922768	82.13	11700672	54.71
2	21	ARCO	LGL F 2	65,996	291,912	.42	12988764	82.55	11992584	56.07
2	34	AMER HESS	IDA WM 17	65,963	109,893	.42	13054727	82.97	12102477	56.58
2	10	ARCO	ETON NW14	65,582	158,459	.42	13120309	83.39	12260936	57.32
2	13	ARCO	ETON SW10	64,255	229,217	.41	13184564	83.80	12490153	58.39
2	33	UN TEX	CARL B 2	62,894	269,457	.40	13247458	84.20	12759610	59.65
2	25	PAC E	CARLB13 7	62,273	117,756	.40	13309731	84.60	12877366	60.20
2	47	ARCO	FED 35 1	61,116	139,318	.39	13370847	84.99	13016684	60.85
2	8	ARCO	JUST F 3Y	60,453	98,403	.38	13431300	85.37	13115087	61.31
2	42	UN TEX	CARL A 5	59,789	146,528	.38	13491089	85.75	13261615	61.99
2	35	TEXACO	A COATC16	57,799	41,790	.37	13548888	86.12	13303405	62.19
2	12	ARCO	ETON SW 8	56,869	197,564	.36	13605757	86.48	13500969	63.11
2	45	TEXACO	HOBBS A 6	56,599	142,704	.36	13662356	86.84	13643673	63.78
2	41	ARCO	CARL F 1	55,020	158,592	.35	13717376	87.19	13802265	64.52
2	46	AMOCO	ST AJ 5	54,679	125,133	.35	13772055	87.54	13927398	65.10
2	15	ARCO	ETON SE12	52,392	80,289	.33	13824447	87.87	14007687	65.48
2	00	TEXACO	RIGGS A 3	52,003	24,598	.33	13876450	88.20	14032285	65.59

TABLE 5
SOUTH JUSTIS AREA
RUNNING TOTAL WATER & OIL CUMS (BBLS)
FOR BLINEBRY WELLS RANKED BY
HIGHEST CUM WATER PRODUCTION

UNIT	ARCO TRACT	OPERATOR	WELL	CUM WATER	CUM OIL	WATER % OF TOTAL	RUNNING TOTAL WATER	CUM % WTR	RUNNING TOTAL OIL	CUM % OIL
2	42	UN TEX	CARL A 6	50,685	149,716	.32	13927135	88.52	14182001	66.29
2	34	AMER HESS	IDA WM 11	50,393	171,837	.32	13977528	88.84	14353838	67.09
2	38	UN TEX	BUFFTN B4	49,712	64,251	.32	14027240	89.16	14418089	67.39
2	23	UN TEX	BLOCKER 7	49,547	196,223	.31	14076787	89.47	14614312	68.31
2	38	UN TEX	BUFFTN B3	49,172	107,894	.31	14125959	89.78	14722206	68.81
2	27	PAC E	CARLA23 1	49,063	21,310	.31	14175022	90.09	14743516	68.91
2	40	BRUNO	CARLB26 7	48,458	39,903	.31	14223480	90.40	14783419	69.10
2	26	ARCO	WIMB WN 9	47,186	84,219	.30	14270666	90.70	14867638	69.49
2	26	ARCO	WIMB WN 7	47,010	271,703	.30	14317676	91.00	15139341	70.76
2	37	TEXACO	PENNEYF 7	46,924	55,222	.30	14364600	91.30	15194563	71.02
2	00	ARCO	GREGORY 1	46,765	37,869	.30	14411365	91.60	15232432	71.20
2	11	ARCO	ETON SW 9	44,762	156,764	.28	14456127	91.88	15389196	71.93
2	34	AMER HESS	IDA WM 16	43,307	79,544	.28	14499434	92.16	15468740	72.30
2	34	AMER HESS	IDA WM 15	42,325	111,971	.27	14541759	92.43	15580711	72.82
2	34	AMER HESS	IDA WM 13	40,901	71,078	.26	14582660	92.69	15651789	73.15
2	24	CHEVRON	L MCBUF13	39,282	187,879	.25	14621942	92.94	15839668	74.03
2	21	ARCO	LGL F 1	37,176	285,320	.24	14659118	93.18	16124988	75.36
2	26	ARCO	WIMB WN 5	36,907	102,411	.23	14696025	93.41	16227399	75.84
2	35	TEXACO	A COATC28	36,899	48,250	.23	14732924	93.64	16275649	76.07
2	20	ARCO	LGL AF 1	36,062	244,496	.23	14768986	93.87	16520145	77.21
2	24	CHEVRON	L MCBUF12	35,949	131,005	.23	14804935	94.10	16651150	77.82
2	35	TEXACO	A COATC14	35,800	113,413	.23	14840735	94.33	16764563	78.35
2	35	TEXACO	A COATC23	34,201	139,163	.22	14874936	94.55	16903726	79.00
2	44	BRUNO	CARLB25 2	34,099	182,868	.22	14909035	94.77	17086594	79.85
2	35	TEXACO	A COATC10	33,507	52,600	.21	14942542	94.98	17139194	80.10
2	14	ARCO	ETON SE13	33,086	26,400	.21	14975628	95.19	17165594	80.22
2	34	AMER HESS	IDA WM 14	33,067	70,434	.21	15008695	95.40	17236028	80.55
2	35	TEXACO	A COATC19	32,574	100,765	.21	15041269	95.61	17336793	81.02
2	24	CHEVRON	L MCBUF 4	30,835	118,629	.20	15072104	95.81	17455422	81.57
2	24	CHEVRON	L MCBUF10	29,136	163,301	.19	15101240	96.00	17618723	82.33
2	36	TEXACO	A COATD03	28,323	110,722	.18	15129563	96.18	17729445	82.85
2	25	PAC E	CARLB13 8	27,622	7,616	.18	15157185	96.36	17737061	82.89
2	23	UN TEX	BLOCKER 4	27,410	46,339	.17	15184595	96.53	17783400	83.11
2	23	UN TEX	BLOCKER 5	25,626	244,357	.16	15210221	96.69	18027757	84.25
2	00	UN TEX	2ST STRT1	25,446	24,088	.16	15235667	96.85	18051845	84.36
2	8	ARCO	JUST F 2	25,437	182,244	.16	15261104	97.01	18234089	85.21
2	40	BRUNO	CARLB26 6	25,272	167,622	.16	15286376	97.17	18401711	85.99
2	26	ARCO	WIMB WN 3	25,146	122,585	.16	15311522	97.33	18524296	86.56
2	43	ARCO	STATE Y 3	24,591	120,229	.16	15336113	97.49	18644525	87.12
2	7	UN TEX	JUSTIS 2	24,484	122,989	.16	15360597	97.65	18767514	87.69
2	43	ARCO	STATE Y 6	24,424	114,216	.16	15385021	97.81	18881730	88.22
2	20	ARCO	LGL AF 2	24,134	287,161	.15	15409155	97.96	19168891	89.56
2	23	UN TEX	BLOCKER 6	23,307	161,364	.15	15432462	98.11	19330255	90.31

TABLE 5
SOUTH JUSTIS AREA
RUNNING TOTAL WATER & OIL CUMS (BBLS)
FOR BLINEBRY WELLS RANKED BY
HIGHEST CUM WATER PRODUCTION

UNIT	ARCO TRACT	OPERATOR	WELL	CUM WATER	CUM OIL	WATER % OF TOTAL	RUNNING TOTAL WATER	CUM % WTR	RUNNING TOTAL OIL	CUM % OIL
2	7	UN TEX	JUSTIS 1	22,235	133,057	.14	15454697	98.25	19463312	90.93
2	25	PAC E	CARLBI3 5	21,614	78,923	.14	15476311	98.39	19542235	91.30
2	35	TEXACO	A COATC22	21,572	134,077	.14	15497883	98.53	19676312	91.93
2	00	FINA	GIBRG F13	20,043	10,005	.13	15517926	98.66	19686317	91.98
2	24	CHEVRON	L MCBUF 6	16,878	221,727	.11	15534804	98.77	19908044	93.02
2	35	TEXACO	A COAT C8	14,655	38,435	.09	15549459	98.86	19946479	93.20
2	24	CHEVRON	L MCBUF 5	14,409	133,619	.09	15563868	98.95	20080098	93.82
2	35	TEXACO	A COATC25	14,106	91,554	.09	15577974	99.04	20171652	94.25
2	35	TEXACO	A COATC26	13,967	128,166	.09	15591941	99.13	20299818	94.85
2	43	ARCO	STATE Y 7	13,957	171,307	.09	15605898	99.22	20471125	95.65
2	44	BRUNO	CARLB25 5	13,950	161,947	.09	15619848	99.31	20633072	96.41
2	37	TEXACO	PENNEYF 6	13,651	50,200	.09	15633499	99.40	20683272	96.64
2	26	ARCO	WIMB WN 6	12,022	124,627	.08	15645521	99.48	20807899	97.22
2	35	TEXACO	A COAT C9	11,260	13,808	.07	15656781	99.55	20821707	97.28
2	42	UN TEX	CARL A 1	10,741	20,751	.07	15667522	99.62	20842458	97.38
2	24	CHEVRON	L MCBUF14	10,308	138,463	.07	15677830	99.69	20980921	98.03
2	24	CHEVRON	L MCBUF15	9,979	20,422	.06	15687809	99.75	21001343	98.13
2	19	ARCO	LGL BF 1	9,796	121,386	.06	15697605	99.81	21122729	98.70
2	35	TEXACO	A COATC24	9,713	148,743	.06	15707318	99.87	21271472	99.40
2	00	AMOCO	LGL BF 6	7,825	847	.05	15715143	99.92	21272319	99.40
2	35	TEXACO	A COATC21	7,574	67,629	.05	15722717	99.97	21339948	99.72
2	00	WBROOK	L BUFFTN1	6,318	26,274	.04	15729035	100.01	21366222	99.84
2	24	CHEVRON	L MCBUF 9	4,448	13,782	.03	15733483	100.04	21380004	99.90
2	3	UN TEX	O STUART1	444	4,067	.00	15733927	100.04	21384071	99.92
2	00	AMOCO	LGL BF 5	194	131	.00	15734121	100.04	21384202	99.92
2	43	ARCO	STATE Y 8	47	8,710	.00	15734168	100.04	21392912	99.96

TABLE 6

Recovery Estimates
20-Acre Secondary Development

OOIP - 208 MMBO

Development	Recovery Efficiency % OOIP	Reserves (MMBO)
40-Acre Primary	14.6	30.4
40-Acre Secondary*	10.3	21.4
20-Acre Primary	2.5	5.2
20-Acre Secondary	3.5	7.3
Total	30.9	64.3

*Reduced by 4.4 MMBO of peripheral reserves unavailable for recovery.

TABLE 7
SECONDARY RECOVERY VS PVI
SOUTH JUSTIS UNIT
80 ACRE LINE DRIVE

DISPLACEABLE PORE VOL = 50% GROSS PORE VOLUME
GROSS PV = 374,750 MRVB; DISP PV = 187,375 MRVB
AVERAGE KH = 448 MD-FT/WELL

PLANT CAPACITY = 71000 BWPD
INITIAL INJECTIVITY = 87,400 BWPD (65 WELLS)
ULTIMATE SECONDARY = 22 MMBO
S/P=.85

GROSS PVI	DISPL PVI	CUM DISPL PVI	TOTAL KH	INJ (BPD/KH)	AVG INJ (BPD/KH)	AVG INJ (BWPD)	INJ EFF. (FRAC.)	NET INJ (BWPD)	TIME (YRS)	SEC REC FRAC	SEC REC (MBO)	CUM SEC REC (MBO)	RATE (BOPD)
0.000	0.00	0	29120	3.00	3.000	71000	0.6	42600	0.0	0.0000	0	0	0
0.030	0.06	11243	29120	2.23	2.615	71000	0.6	42600	0.7	0.0000	0	0	0
0.050	0.10	18738	29120	2.00	2.115	61589	0.6	36953	1.3	0.0022	48	48	239
0.075	0.15	28106	29120	1.80	1.900	55328	0.6	33197	2.1	0.0050	62	110	218
0.100	0.20	37475	29120	1.00	1.400	40768	0.6	24461	3.1	0.0094	97	207	253
0.125	0.25	46844	29120	0.97	0.985	28683	0.6	17210	4.6	0.0150	123	330	226
0.150	0.30	56213	29120	0.95	0.960	27955	0.6	16773	6.1	0.0250	220	550	394
0.175	0.35	65581	29120	0.93	0.940	27373	0.6	16424	7.7	0.0350	220	770	386
0.200	0.40	74950	29120	0.90	0.915	26645	0.6	15987	9.3	0.0500	330	1100	563
0.225	0.45	84319	29120	0.89	0.895	26062	0.6	15637	10.9	0.0650	330	1430	551
0.250	0.50	93688	29120	0.87	0.880	25626	0.6	15375	12.6	0.0800	330	1760	542
0.275	0.55	103056	29120	0.86	0.865	25189	0.6	15113	14.3	0.1000	440	2200	710
0.300	0.60	112425	29120	0.85	0.855	24898	0.6	14939	16.0	0.1200	440	2640	702
0.325	0.65	121794	29120	0.83	0.840	24461	0.6	14676	17.8	0.1400	440	3080	689
[illegible]50	0.70	131163	29120	0.80	0.815	23733	0.6	14240	19.6	0.1700	660	3740	1003
[illegible]5	0.75	140531	29120	0.78	0.790	23005	0.6	13803	21.4	0.2000	660	4400	972
0.400	0.80	149900	29120	0.75	0.765	22277	0.6	13366	23.4	0.2300	660	5060	942
0.425	0.85	159269	29120	0.74	0.745	21694	0.6	13017	25.3	0.2600	660	5720	917
0.450	0.90	168638	29120	0.73	0.735	21403	0.6	12842	27.3	0.3000	880	6600	1206
0.475	0.95	178006	29120	0.71	0.720	20966	0.6	12580	29.4	0.3500	1100	7700	1477
0.500	1.00	187375	29120	0.70	0.705	20530	0.6	12318	31.4	0.3800	660	8360	868
0.525	1.05	196744	29120	0.69	0.695	20238	0.6	12143	33.6	0.4300	1100	9460	1426
0.550	1.10	206113	29120	0.69	0.690	20093	0.6	12056	35.7	0.4800	1100	10560	1415
0.575	1.15	215481	29120	0.68	0.685	19947	0.6	11968	37.8	0.5000	440	11000	562
0.600	1.20	224850	29120	0.68	0.680	19802	0.6	11881	40.0	0.5200	440	11440	558
0.625	1.25	234219	29120	0.67	0.675	19656	0.6	11794	42.2	0.5900	1540	12980	1939
0.650	1.30	243588	29120	0.66	0.665	19365	0.6	11619	44.4	0.6100	440	13420	546
0.675	1.35	252956	29120	0.66	0.660	19219	0.6	11532	46.6	0.6400	660	14080	812
0.700	1.40	262325	29120	0.65	0.655	19074	0.6	11444	48.8	0.6800	880	14960	1075
0.725	1.45	271694	29120	0.65	0.650	18928	0.6	11357	51.1	0.7000	440	15400	533
0.750	1.50	281063	29120	0.65	0.650	18928	0.6	11357	53.4	0.7200	440	15840	533
0.775	1.55	290431	29120	0.64	0.645	18782	0.6	11269	55.6	0.7500	660	16500	794
0.800	1.60	299800	29120	0.64	0.640	18637	0.6	11182	57.9	0.7700	440	16940	525
0.825	1.65	309169	29120	0.64	0.640	18637	0.6	11182	60.2	0.7900	440	17380	525
0.850	1.70	318538	29120	0.64	0.640	18637	0.6	11182	62.5	0.8100	440	17820	525
0.875	1.75	327906	29120	0.63	0.635	18491	0.6	11095	64.8	0.8200	220	18040	261
0.900	1.80	337275	29120	0.63	0.630	18346	0.6	11007	67.2	0.8400	440	18480	517
0.925	1.85	346644	29120	0.63	0.630	18346	0.6	11007	69.5	0.8500	220	18700	258
[illegible]50	1.90	356013	29120	0.63	0.630	18346	0.6	11007	71.8	0.8600	220	18920	258
5	1.95	365381	29120	0.62	0.625	18200	0.6	10920	74.2	0.8700	220	19140	256
[illegible].000	2.00	374750	29120	0.61	0.615	17909	0.6	10745	76.6	0.8900	440	19580	505

TABLE 8
SECONDARY RECOVERY VS PVI
SOUTH JUSTIS UNIT
40 ACRE 5 SPOT

DISPLACEABLE PORE VOL = 50% GROSS PORE VOLUME
GROSS PV = 337,000 MRVB; DISP PV = 168,500 MRVB
AVERAGE KH = 448 MD-FT/WELL

PLANT CAPACITY = 123000 BWPD
INITIAL INJECTIVITY = 137,000 BWPD (102 WELLS)

ULT. SEC.=34 MMBO
S/P=1.15

GROSS PVI	DISPL PVI	CUM DISPL PVI	TOTAL KH	INJECTIVITY (BPD/KH)	AVG INJECTIVITY (BPD/KH)	AVG INJ. (BWPD)	INJECTION EFFICIENCY (FRACTION)	NET INJ. (BWPD)	TIME (YRS)	SEC REC FRAC	SEC REC (MBO)	CUM SEC REC (MBO)	RATE (BOPD)
0.000	0.00	0	45696	3.00	3.000	123000	0.85	104550	0.0	0.000	0	0	0
0.030	0.06	10110	45696	2.17	2.585	118124	0.85	100406	0.3	0.010	340	340	3377
0.050	0.10	16850	45696	2.00	2.085	95276	0.85	80985	0.5	0.015	170	510	2043
0.075	0.15	25275	45696	1.80	1.900	86822	0.85	73799	0.8	0.022	238	748	2085
0.100	0.20	33700	45696	1.00	1.400	63974	0.85	54378	1.2	0.030	272	1020	1756
0.125	0.25	42125	45696	0.97	0.985	45011	0.85	38259	1.8	0.035	170	1190	772
0.150	0.30	50550	45696	0.95	0.960	43868	0.85	37288	2.5	0.040	170	1360	752
0.175	0.35	58975	45696	0.93	0.940	42954	0.85	36511	3.1	0.070	1020	2380	4420
0.200	0.40	67400	45696	0.90	0.915	41812	0.85	35540	3.7	0.100	1020	3400	4303
0.225	0.45	75825	45696	0.89	0.895	40898	0.85	34763	4.4	0.120	680	4080	2806
0.250	0.50	84250	45696	0.87	0.880	40212	0.85	34181	5.1	0.150	1020	5100	4138
0.275	0.55	92675	45696	0.86	0.865	39527	0.85	33598	5.8	0.180	1020	6120	4068
0.300	0.60	101100	45696	0.85	0.855	39070	0.85	33210	6.5	0.220	1360	7480	5361
0.325	0.65	109525	45696	0.83	0.840	38385	0.85	32627	7.2	0.280	2040	9520	7900
0.350	0.70	117950	45696	0.80	0.815	37242	0.85	31656	7.9	0.340	2040	11560	7665
0.375	0.75	126375	45696	0.78	0.790	36100	0.85	30685	8.7	0.400	2040	13600	7430
0.400	0.80	134800	45696	0.75	0.765	34957	0.85	29714	9.4	0.470	2380	15980	8394
0.425	0.85	143225	45696	0.74	0.745	34044	0.85	28937	10.2	0.520	1700	17680	5839
0.450	0.90	151650	45696	0.73	0.735	33587	0.85	28549	11.0	0.580	2040	19720	6913
0.475	0.95	160075	45696	0.71	0.720	32901	0.85	27966	11.9	0.610	1020	20740	3386
0.500	1.00	168500	45696	0.70	0.705	32216	0.85	27383	12.7	0.650	1360	22100	4420
0.525	1.05	176925	45696	0.69	0.695	31759	0.85	26995	13.6	0.670	680	22780	2179
0.550	1.10	185350	45696	0.69	0.690	31530	0.85	26801	14.4	0.700	1020	23800	3245
0.575	1.15	193775	45696	0.68	0.685	31302	0.85	26606	15.3	0.730	1020	24820	3221
0.600	1.20	202200	45696	0.68	0.680	31073	0.85	26412	16.2	0.770	1360	26180	4264
0.625	1.25	210625	45696	0.67	0.675	30845	0.85	26218	17.0	0.800	1020	27200	3174
0.650	1.30	219050	45696	0.66	0.665	30388	0.85	25830	17.9	0.830	1020	28220	3127
0.675	1.35	227475	45696	0.66	0.660	30159	0.85	25635	18.8	0.840	340	28560	1035
0.700	1.40	235900	45696	0.65	0.655	29931	0.85	25441	19.7	0.850	340	28900	1027
0.725	1.45	244325	45696	0.65	0.650	29702	0.85	25247	20.7	0.855	170	29070	509
0.750	1.50	252750	45696	0.65	0.650	29702	0.85	25247	21.6	0.860	170	29240	509
0.775	1.55	261175	45696	0.64	0.645	29474	0.85	25053	22.5	0.875	510	29750	1517
0.800	1.60	269600	45696	0.64	0.640	29245	0.85	24859	23.4	0.890	510	30260	1505
0.825	1.65	278025	45696	0.64	0.640	29245	0.85	24859	24.4	0.895	170	30430	502
0.850	1.70	286450	45696	0.64	0.640	29245	0.85	24859	25.3	0.900	170	30600	502
0.875	1.75	294875	45696	0.63	0.635	29017	0.85	24664	26.2	0.905	170	30770	498
0.900	1.80	303300	45696	0.63	0.630	28788	0.85	24470	27.2	0.910	170	30940	494
0.925	1.85	311725	45696	0.63	0.630	28788	0.85	24470	28.1	0.915	170	31110	494
0.950	1.90	320150	45696	0.63	0.630	28788	0.85	24470	29.0	0.920	170	31280	494
0.975	1.95	328575	45696	0.62	0.625	28560	0.85	24276	30.0	0.930	340	31620	980
1.000	2.00	337000	45696	0.61	0.615	28103	0.85	23888	31.0	0.940	340	31960	964
1.100	2.20	370700	45696	0.61	0.610	27875	0.85	23693	34.9	0.970	1020	32980	717
1.200	2.40	404400	45696	0.61	0.610	27875	0.85	23693	38.8	1.000	1020	34000	717

TABLE 9

Cost Summaries
Blinebry and Tubb/Drinkard Development

80-Acre Line Drive

Item	Per Well Cost (M$)	Tangibles (M$)	Intangibles (M$)	Total (M$)
Stimulate 70 Producers	97.65	308.0	6,527.5	6,835.5
Convert 65 Wells	105.95	1,774.5	5,112.3	6,886.8
Equip 70 Producers	46.30	3,241.0	0	3,241.0
Facilities	0	17,072.0	0	17,072.0
Total		22,395.5	11,639.8	34,035.3

40-Acre Five-Spot

Item	Per Well Cost (M$)	Tangibles (M$)	Intangibles (M$)	Total (M$)
Stimulate 125 Producers	97.65	550.0	11,656.3	12,206.3
Drill & Complete 4 Producers	348.30	369.2	1,024.0	1,393.2
Convert 11 Producers	105.95	300.3	865.2	1,165.5
Drill and Complete 86 Injectors	299.00	8,092.6	17,621.4	25,714.0
Core and Complete 5 Injectors	397.10	537.0	1,448.5	1,985.5
RFT 20 wells	4.00	0	80.0	80.0
Equip 129 Producers	46.30	5,972.7	0	5,972.7
Facilities	0	21,220.0	0	21,220.0
Total		37,041.8	32,695.4	69,737.2

TABLE 10

Cost Summaries
Blinebry Development Only

80-Acre Line Drive

Item	Per Well Cost (M$)	Tangibles (M$)	Intangibles (M$)	Total (M$)
Stimulate 70 Producers	79.95	252.2	5,344.3	5,596.5
Convert 65 Wells	95.00	1,591.1	4,583.9	6,175.0
Equip 70 Producers	46.30	3,241.0	0	3,241.0
Facilities	0	17,072.0	0	17,072.0
Total		22,156.3	9,928.2	32,084.5

% of Blinebry and Tubb/Drinkard Development - 94.3

40-Acre Five-Spot

Item	Per Well Cost (M$)	Tangibles (M$)	Intangibles (M$)	Total (M$)
Stimulate 125 Producers	79.95	550.0	9,443.8	9,993.8
Drill & Complete 4 Producers	292.70	19.2	1,151.6	1,170.8
Convert 11 Producers	95.00	11.2	1,033.8	1,045.0
Drill & Complete 86 Injectors	277.90	7,791.6	16,107.8	23,899.4
Core & Complete 5 Injectors	366.60	415.5	1,417.5	1,833.0
RFT 20 Wells	3.50	0	70.0	70.0
Equip 129 Producers	46.30	5,972.7	0	5,972.7
Facilities	0	21,220.0	0	21,220.0
Total		35,980.2	29,224.5	65,204.7

% of Blinebry and Tubb/Drinkard Development - 93.5

TABLE 11

PROPOSED SOUTH JUSTIS UNIT TRACTS AND CURRENT OPERATORS
(continued)

TRACT NO.	OPERATOR	LEASE NAME
37	Texaco Inc.	C. E. Penny Federal NCT 4
38A	Union Texas Petroleum Corp.	Buffington "B"
38B	Texaco Inc.	L. M. Buffington B
39	ARCO Oil and Gas Company	Carlson (JH)
40	Bruno, Earl R.	Carlson "B"-26
41	ARCO Oil and Gas Company	Carlson Federal
42	Union Texas Petroleum Corp.	Carlson "A"
43	ARCO Oil and Gas Company	State "Y"
44	Bruno, Earl R.	Carlson "B"-25
45	Texaco Inc.	Hobbs "A"
46	Amoco Production Company	State "AJ"
47	ARCO Oil and Gas Company	Federal 35
48	Union Texas Petroleum Corp.	Gregory "A" Federal
49	Chevron USA, Inc.	Arnott Ramsay NCT "F"
50	Chevron USA, Inc.	Vinson Ramsay NCT "B"
51	Fina	Ginsberg Federal
52	Texaco Inc.	G. D. Riggs "B"

TABLE 11

PROPOSED SOUTH JUSTIS UNIT TRACTS AND CURRENT OPERATORS

TRACT NO.	OPERATOR	LEASE NAME
1	Chevron USA, Inc.	J. A. Stuart
2	Union Texas Petroleum Corp.	Stuart
3	Union Texas Petroleum Corp.	Olsen Stuart
4	ARCO Oil and Gas Company	J. A. Stuart
5	ARCO Oil and Gas Company	Jal
6	ARCO Oil and Gas Company	Langlie "B" (JH)
7	Union Texas Petroleum Corp.	Justis
8	ARCO Oil and Gas Company	Justice
9A	ARCO Oil and Gas Company	Eaton, N.W. (JH) Nos. 15, 16, and 17 (Bly)
9B	ARCO Oil and Gas Company	Eaton, N.W. (JH) Nos. 15, 16, and 17 (T/D)
10A	ARCO Oil and Gas Company	Eaton, N.W. (JH) No. 14 (Bly)
10B	ARCO Oil and Gas Company	Eaton, N.W. (JH) No. 14 (T/D)
11	ARCO Oil and Gas Company	Eaton, S.W. (JH) Nos. 9 and 11
12A	ARCO Oil and Gas Company	Eaton, S.W. (JH) No. 8 (Bly)
12B	ARCO Oil and Gas Company	Eaton, S.W. (JH) No. 8 (T/D)
13	ARCO Oil and Gas Company	Eaton, S.W. (JH) No. 10
14	ARCO Oil and Gas Company	Eaton, S.E. (JH) No. 13
15	ARCO Oil and Gas Company	Eaton, S.E. (JH) No. 12
16	ARCO Oil and Gas Company	Stuart "A" WN
17	Amerada Hess Corp.	W. F. Stuart
18	Union Texas Petroleum Corp.	Langlie "D"
19	ARCO Oil and Gas Company	Langlie "B" Federal
20	ARCO Oil and Gas Company	Langlie "A" Federal
21	ARCO Oil and Gas Company	Langlie Federal
22	Union Texas Petroleum Corp.	Langlie "B"
23	Union Texas Petroleum Corp.	Blocker
24	Chevron USA, Inc.	Learcy McBuffington
25	Pacific Enterprises	Carlson "B" 13
26	ARCO Oil and Gas Company	Wimberly WN
27	Pacific Enterprises	Carlson "A"-23
28	Texaco Inc.	Las Cruces "C"
29	ARCO Oil and Gas Company	Wimberly (JH) No. 2
30	ARCO Oil and Gas Company	Wimberly (JH) No. 3
31	ARCO Oil and Gas Company	Carlson "A" Federal
32	American Exploration	El Paso Federal
33	Union Texas Petroleum Corp.	Carlson "B"
34	Amerada Hess Corp.	Ida Wimberley
35	Texaco Inc.	A. B. Coates "C"
36	Texaco Inc.	A. B. Coates "D"

FIGURES

SOUTH JUSTIS UNIT AREA
BLINEBRY PRODUCTION

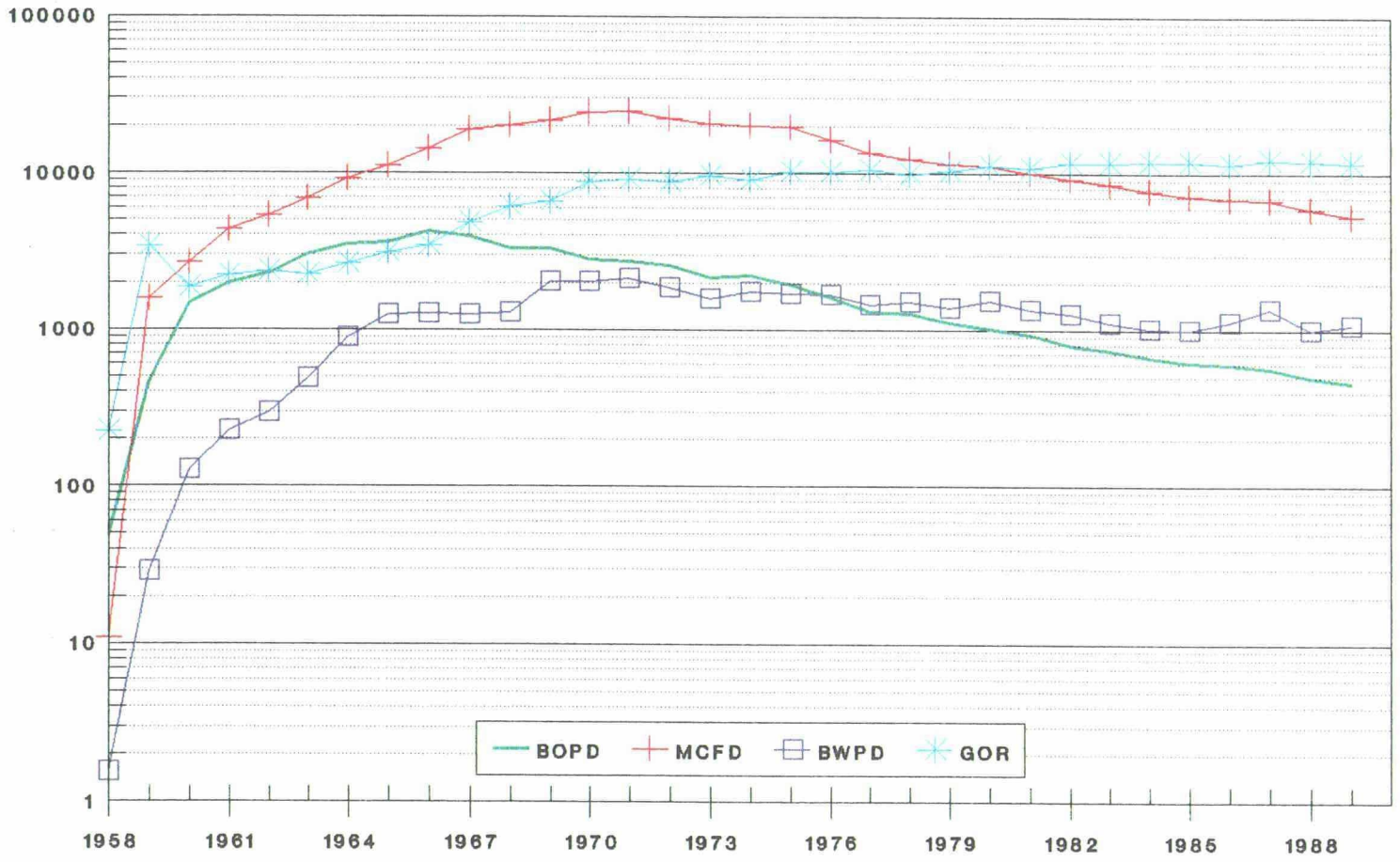


FIGURE 1

R8P/EEG SJUBLBY 12/27/90

SOUTH JUSTIS UNIT AREA
TUBB/DRINKARD PRODUCTION

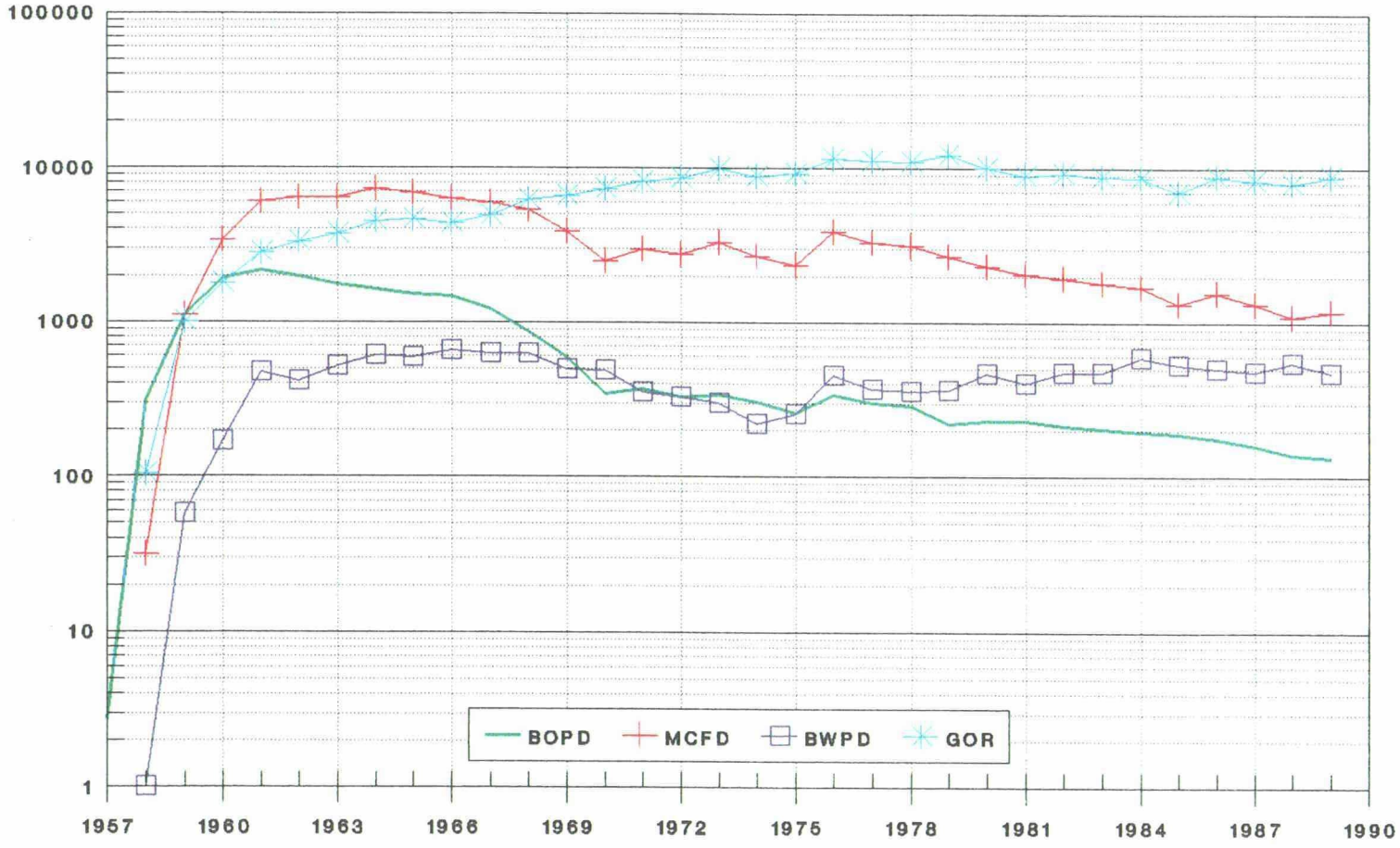


FIGURE 2

RSP/EEG SJUTBDRK 12/28/90

PRIMARY PERFORMANCE HISTORY
SOUTH JUSTIS UNIT - LEA COUNTY, NM
BLINEBRY & TUBB/DRINKARD RESERVOIRS

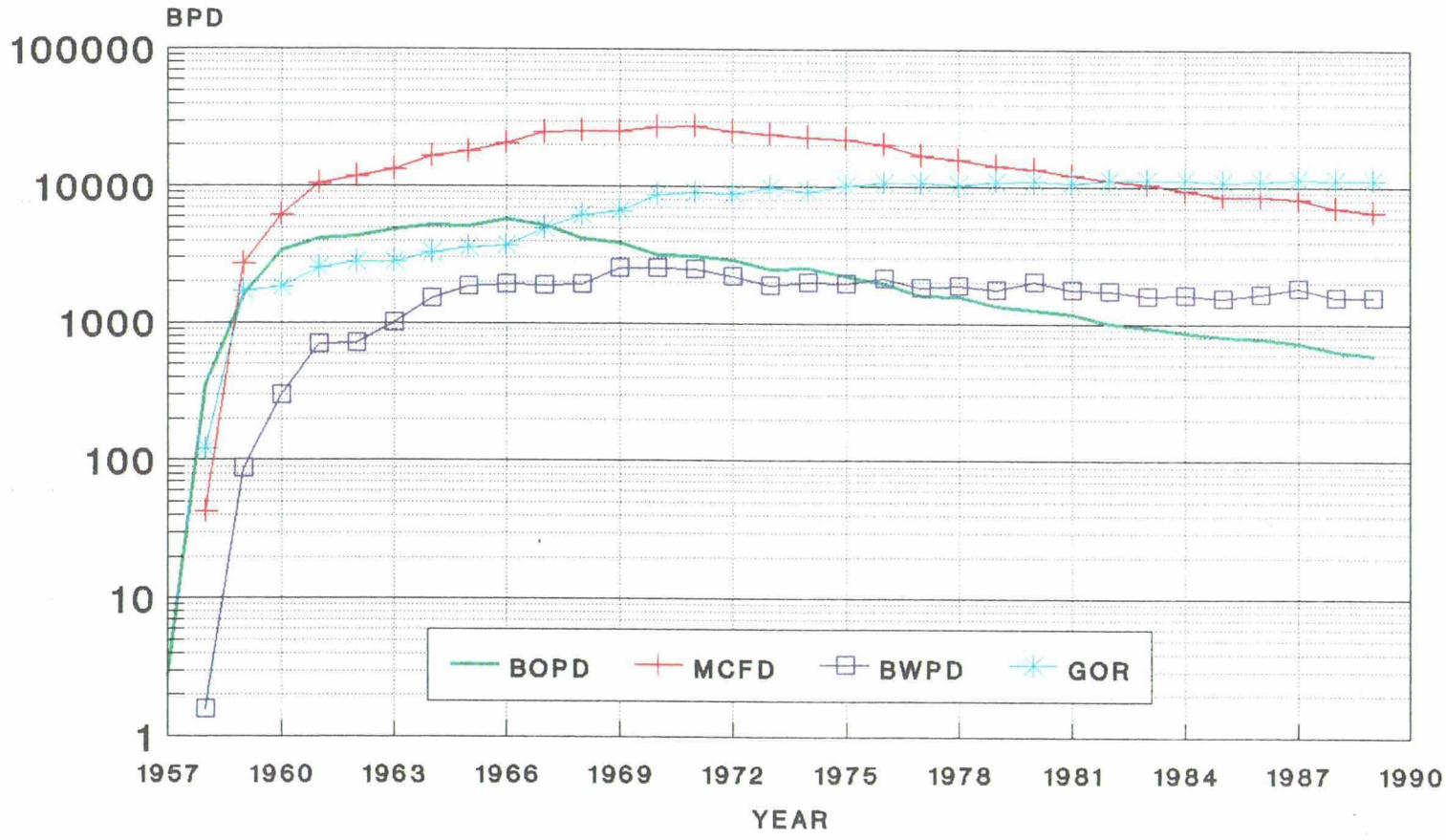


FIGURE 3

RSP/EEG PRICOMB 12/27/90

R 37 E

R 38 E

T 25 S

T 26 S

LEGEND

- Blinebry/Tubb–Drinkard
- 100–200 MBW (70% OF Total Cumulutive
- 200–300 MBW (44% of Total Cumulutive
- >300 MBW (29% of Total Cumulutive
- 000/000 CUM MBO | CUM MBW ;1–1–89

Figure 4

SCALE 1/2 mile

59

ARCO Oil and Gas Company
Division of AtlanticRichfieldCompany

Central District Midland, Texas

JUSTIS BLINEBRY
JUSTIS TUBB/DRINKARD

Lea Co., New Mexico

Proposed South Justis Unit
High Cumulative Blinebry Water Production

Scale: 1"=2000'

By:	DICK PRENTICE	Drawn By: LGA	Date: 6/89
Date:	6/89	Revised By: P.M.	Date: 3/10/92
Dept:	NW ENGR.	Dwg No.	SJUSTIS4 NMBASE1

A COMPARISON OF CUM. OIL & WATER PROD.
FOR WELLS RANKED BY HIGHEST WATER PROD.
Blinebry Field - South Justis Unit

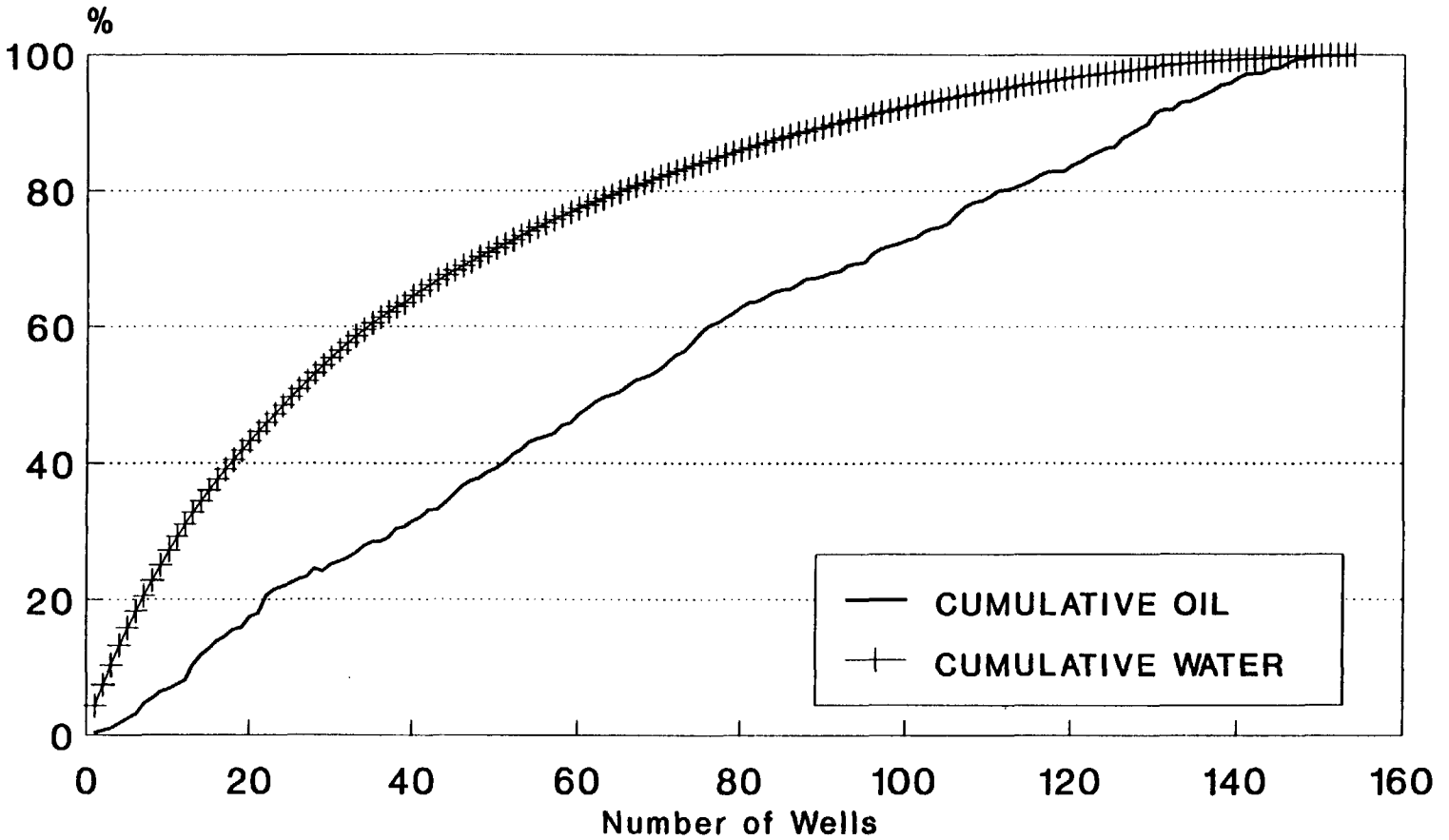


FIGURE 5

RSP/EEG 10/23/89

R 37 E

R 38 E

T 25 S

T 26 S

Bridge Oil Humphrey Queen Unit

Chevron Stuart Langlie Mattix Unit

Bridge Oil Langlie Mattix Queen Unit

Proposed So. Justis Unit Boundary

LEGEND

Blinebry/Tubb-Drinkard

Justis Glorieta Gas

MCFD (5-89) | Cum BCF (1-89)
1988 SITP-PSIG

Figure 6

SCALE

ARCO Oil and Gas Company
Division of AtlanticRichfieldCompany

Central District Midland, Texas

JUSTIS BLINEBRY
JUSTIS TUBB/DRINKARD

Lea Co., New Mexico

Proposed South Justis Unit
Glorieta Gas Production

Scale: 1"=2000'

By:	DICK PRENTICE	Drawn By: LGA	Date: 6/89
Date:	6/89	Revised By: P.M.	Date: 3/10/92
Dept:	NW ENGR.	Dwg No.	SJUSTIS5 NMBASE1

INJECTIVITY VS.
GROSS PORE VOLUME INJECTED
JUSTIS FIELD, LEA COUNTY, NM

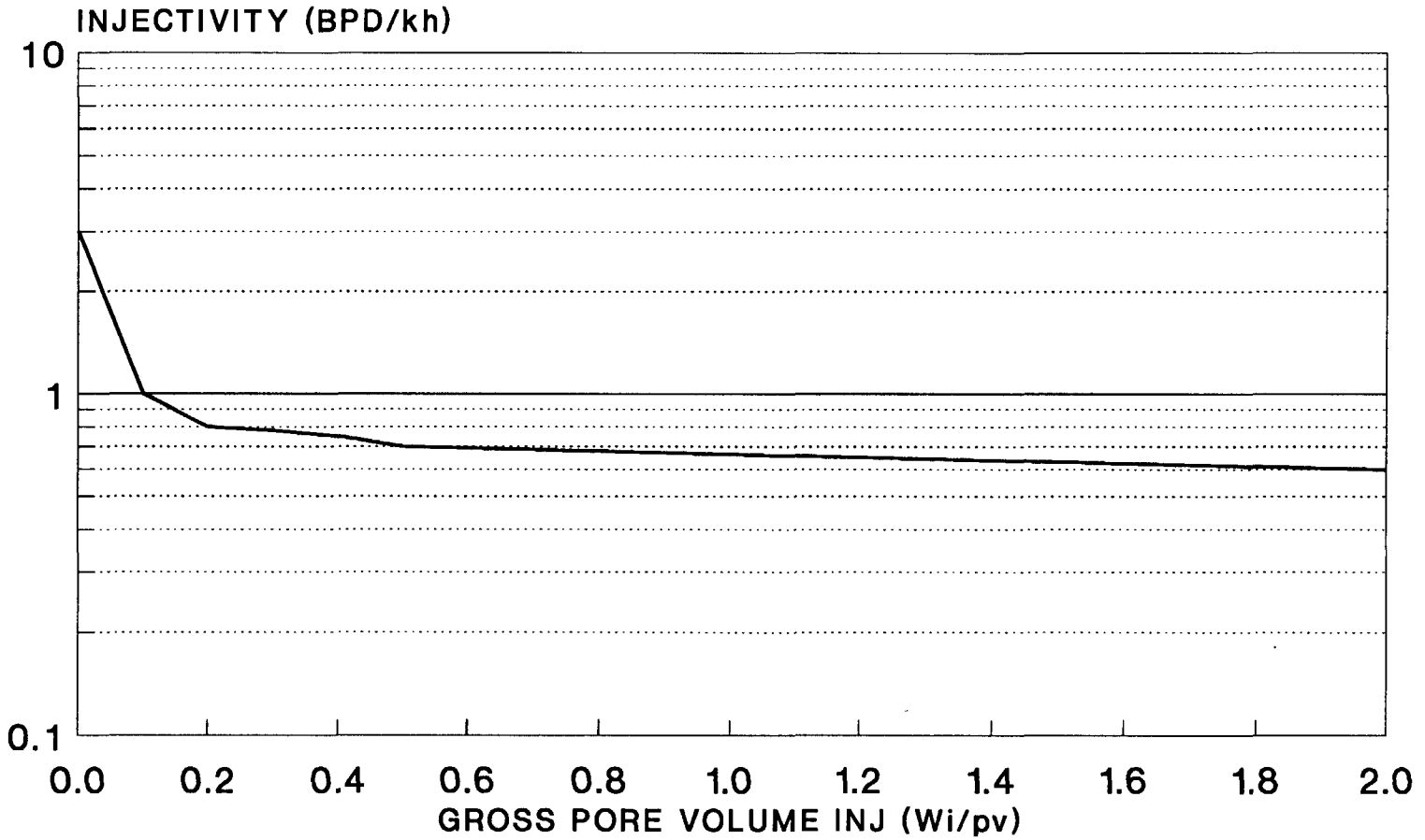


FIGURE 7

RSP/EEG 10/23/89

R 37 E

R 38 E

T 25 S

T 26 S

Proposed So. Justis Unit Boundary

LEGEND

- Proposed Unit Injector
- Unit Producer
- Blinebry/Tubb–Drinkard
- Justis Glorieta Gas
- Deep Completion
- Langlie Mattix Oil
- Langlie Mattix Gas
- Langlie Mattix Injector

Figure 8

SCALE 1/2 Mile

ARCO Oil and Gas Company
Division of AtlanticRichfieldCompany

Central District Midland, Texas

JUSTIS BLINEBRY
JUSTIS TUBB/DRINKARD

Lea Co., New Mexico

Proposed South Justis Unit
80 Acre Line Drive Development

Scale: 1"=2000'

By:	DICK PRENTICE	Drawn By: LGA	Date: 6/89
Date:	8/89	Revised By: P.M.	Date: 3/10/92
Dept:	NW ENGR.	Dwg No.	SJUSTIS2 NMBASE1

SECONDARY RECOVERY VS. PORE VOLUME INJECTED CENTRAL DRINKARD UNIT

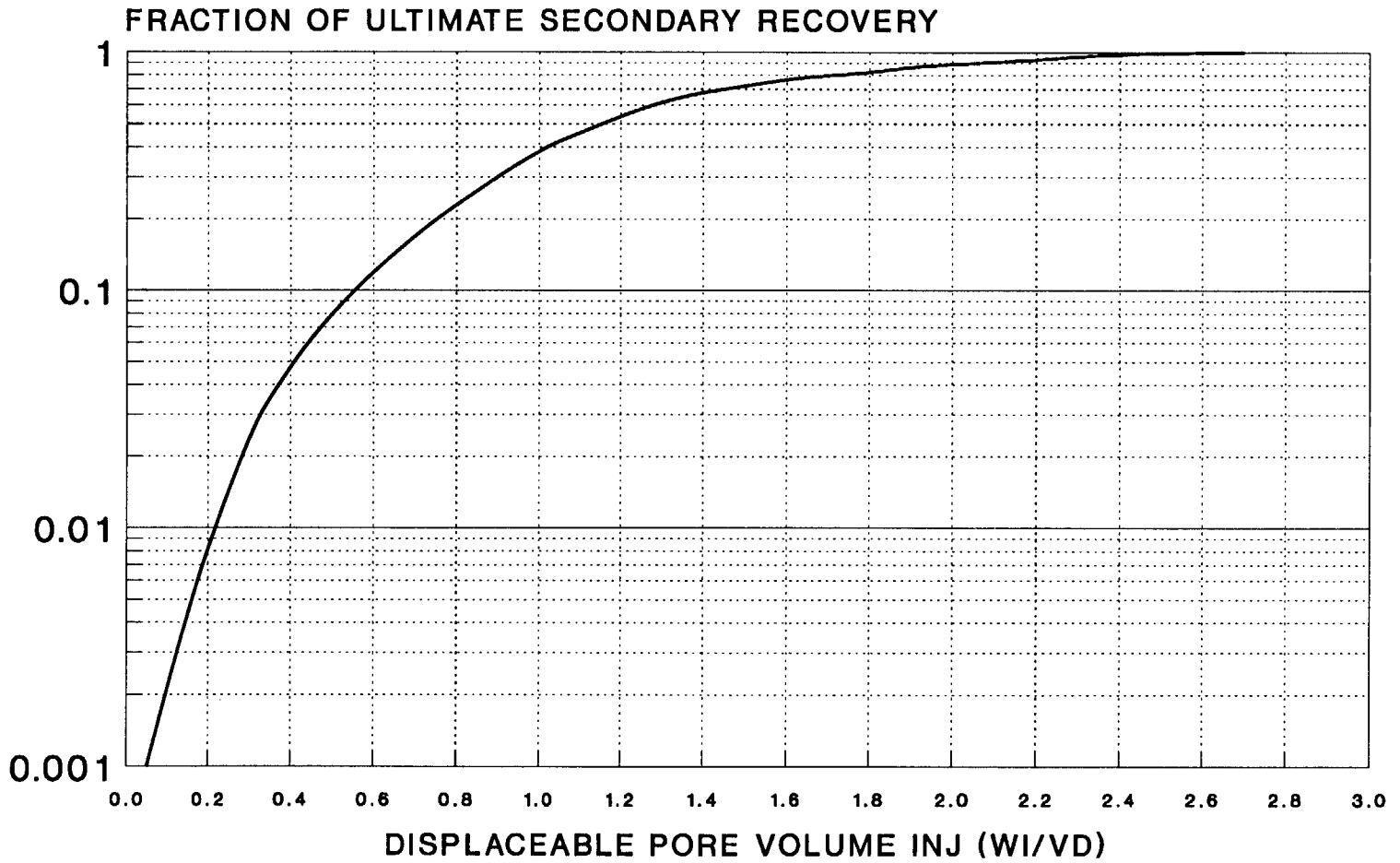


FIGURE 9

CWE/RSP/EEG 10/23/89

PROPOSED SOUTH JUSTIS UNIT
80-ACRE LINE DRIVE
REGIONAL STUDY FORECAST

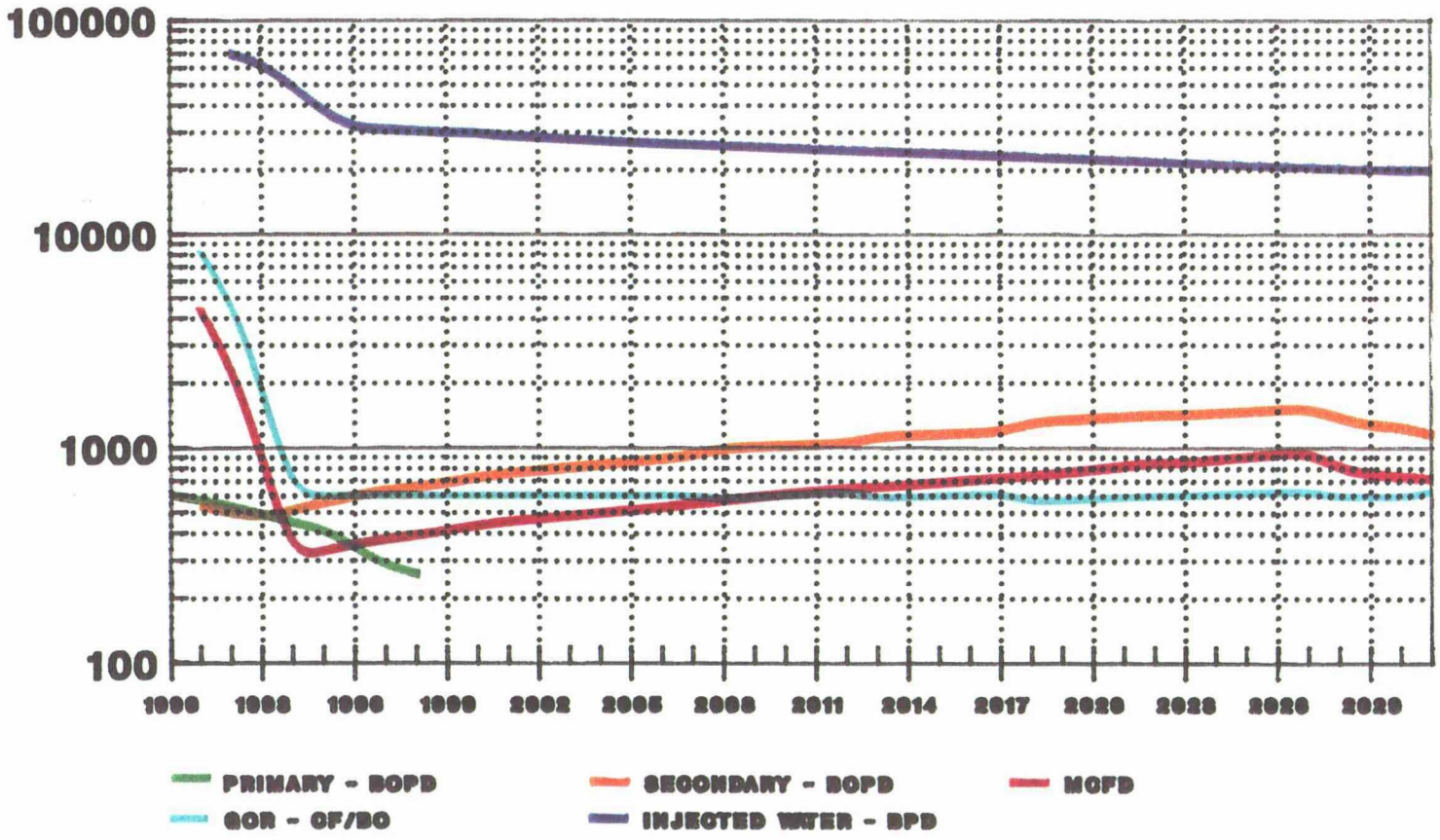


FIGURE 10
65

RSP/EEG 80ACRE 01/17/01

R 37 E

R 38 E

T 25 S

T 26 S

Proposed So. Justis Unit Boundary

LEGEND

- Production Injector
- Proposed Producer
- Proposed Conversion
- Blinebry/Tubb–Drinkard
- Justis Glorieta Gas
- Deep Completion
- Langlie Mattix Oil
- Langlie Mattix Gas
- Langlie Mattix Injector

Figure 11

SCALE 1/8 Mile

66

ARCO Oil and Gas Company
Division of AtlanticRichfieldCompany

Central District Midland, Texas

JUSTIS BLINEBRY JUSTIS TUBB/DRINKARD

Lea Co., New Mexico

Proposed South Justis Unit 40 Acre 5-Spot Development

Scale: 1"=2000'

By:	DICK PRENTICE	Drawn By: R.T.	Date: 7/90
Date:	6/89	Revised By: P.M.	Date: 3/10/92
Dept:	NW ENGR.	Dwg No.	SJUSTIS7 NMSPLT2

PROPOSED SOUTH JUSTIS UNIT
40-ACRE 5-SPOTS
REGIONAL STUDY FORECAST

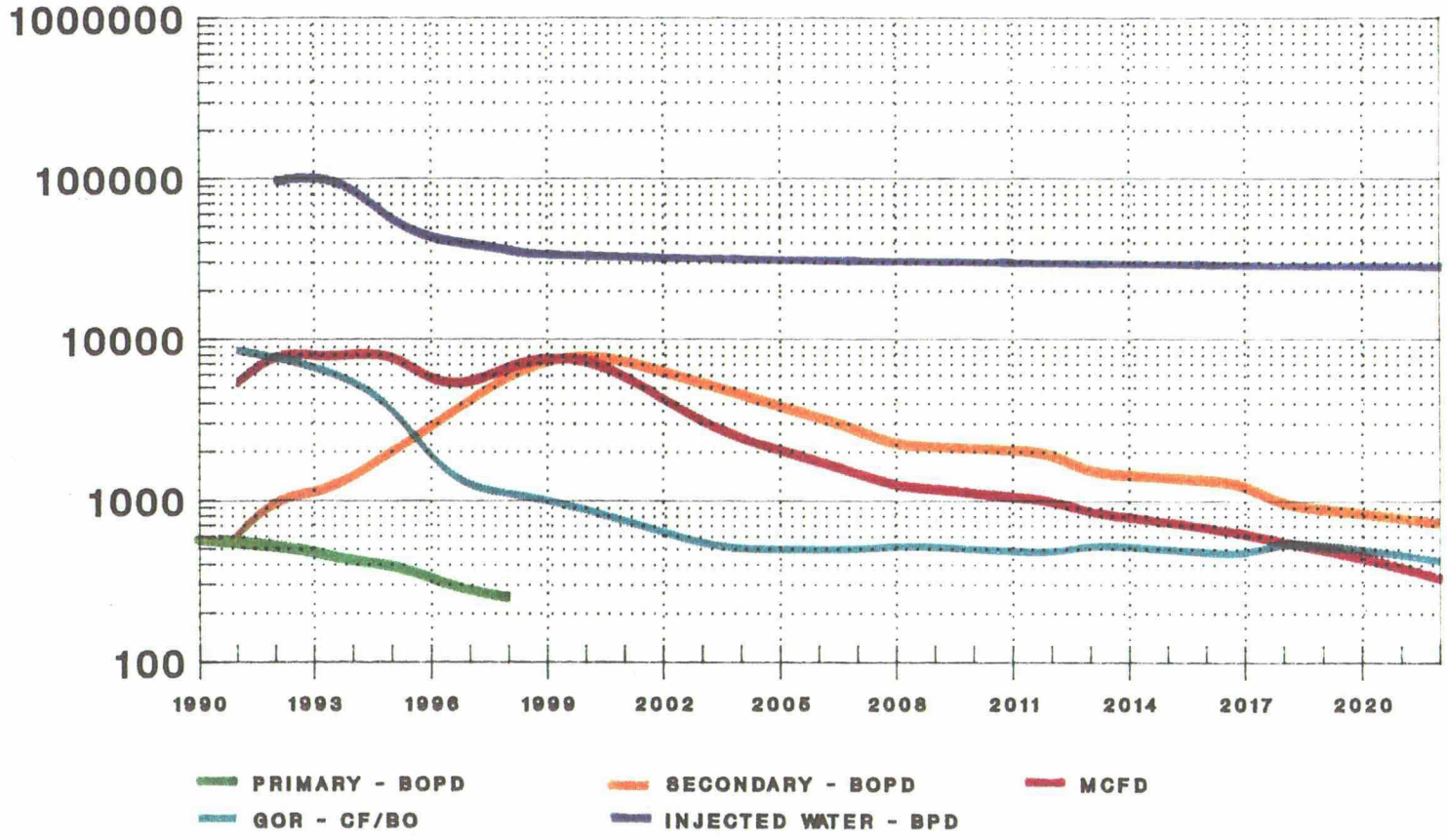


FIGURE 12

RSP/EEG 40ACRE 11/29/90

FIGURE 13

Martin Water Laboratories, Inc.
WATER CONSULTANTS SINCE 1953
BACTERIAL AND CHEMICAL ANALYSES

P.O. BOX 1468
MONAHANS, TEXAS 79756
PH. 943-3234 or 563-1040

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

July 21, 1988

Mr. Randy Thompson
ARCO Oil & Gas Company
P.O. Box 949
Andrews, Texas 79714

Dear Mr. Thompson:

The objective of this letter is to respond to your request to evaluate certain compatibilities regarding the waters represented in the discussion below.

The primary need for compatibility is understood to be between your State "Y" Fusselman water and Texaco's Jal Water System water. In order to represent Fusselman, we have utilized records of State "Y" #5 and #8 reported on laboratory #588105 (5-16-88); and for Texaco's Jal Water System water, we have utilized records reported to them last February. In comparing these records, we have encountered no evidence of any incompatibility between the Fusselman water and Texaco's water. Therefore, we would classify these two waters to be compatible without reservation.

Also, we have studied the possibility of including your Wimberly Fusselman, Blinebry, and Tubb-Drinkard waters as represented from wells #6, #10, and #11 respectively and reported on laboratory #1087236 (10-28-87). We have examined these waters regarding their compatibility with your State "Y" Fusselman and also Texaco's water. Again, we have encountered no evidence of any incompatibility between these Wimberly waters and either the State "Y" Fusselman water or the Texaco water. However, in this comparison, we do have one mild concern in that a majority of our Blinebry records show slight hydrogen sulfide as does the Wimberly #10 water, but we have a few records which do not show sulfide. In the absence of sulfide, it would be possible that the Blinebry water might have some soluble iron. However, based on records available, this is very unlikely but would lead us to suggest that the composite Blinebry water that might be combined with the other waters in this study should be re-checked to confirm this aspect of this water.

Very truly yours,

Waylan C. Martin

WCM/sn

cc: Mr. Robert Patterson,
Texaco @ Eunice

P. O. BOX 1468
MONAHANS, TEXAS 79756
PH. 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

LABORATORY NO. 1087236

TO: Mr. Arley Stafford
P.O. Box 949, Andrews, Texas

SAMPLE RECEIVED 10-23-87

RESULTS REPORTED 10-28-87

COMPANY ARCO Oil & Gas Company LEASE Wimberly

FIELD OR POOL Justice

SECTION ___ BLOCK ___ SURVEY ___ COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Produced water - taken from Wimberly #6. 10-22-87

NO. 2 Produced water - taken from Wimberly #10. 10-22-87

REMARKS: 1. Funselman 2. Bilnbry Blinebry

CHEMICAL AND PHYSICAL PROPERTIES

	NO. 1	me/l	NO. 2	me/l
Specific Gravity at 60° F.	1.0478		1.0675	
pH When Received	7.60		7.30	
Carbonate as CO_3	0	0.0	0	0.0
Bicarbonate as HCO_3	1,013	16.6	714	11.7
Supersaturation as $CaCO_3$	130		75	
Undersaturation as $CaCO_3$	---		---	
Total Hardness as $CaCO_3$	10,900		17,300	
Calcium as Ca	2,780	139.0	4,760	238.0
Magnesium as Mg	960	79.0	1,312	108.0
Sodium and/or Potassium	21,365	929.0	31,208	1,356.9
Sulfate as SO_4	2,829	58.9	1,869	38.9
Chloride as Cl	37,995	1,071.5	58,591	1,652.3
Iron as Fe	0.24	0.0	0.40	0.0
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	66,942		98,454	
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
XXXX Sulfide - Total	437		3.8	
Resistivity, ohms/m at 77° F.	0.127		0.096	
Suspended Oil				

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks

Form No. 2

By ___

P. O. BOX 1468
MONAHANS, TEXAS 79756
PH. 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

LABORATORY NO. 1087236 (Page 2)

TO: Mr. Arley Stafford
P.O. Box 949, Andrews, Texas

SAMPLE RECEIVED 10-23-87
RESULTS REPORTED 10-28-87

COMPANY ARCO Oil & Gas Company LEASE Wimberly
FIELD OR POOL Justice Justis
SECTION ___ BLOCK ___ SURVEY ___ COUNTY Lea STATE NM
SOURCE OF SAMPLE AND DATE TAKEN:
NO. 1 Produced water - taken from Wimberly #11. 10-22-87
NO. 2
REMARKS: Tubb-Drinkard

CHEMICAL AND PHYSICAL PROPERTIES	NO. 1	me/l	NO. 2	me/l
Specific Gravity at 60° F.	1.0857			
pH When Received	7.50			
Carbonate as CO_3	0	0.0		
Bicarbonate as HCO_3	506	8.3		
Supersaturation as $CaCO_3$	85			
Undersaturation as $CaCO_3$	---			
Total Hardness as $CaCO_3$	21,700			
Calcium as Ca	5,640	282.0		
Magnesium as Mg	1,847	152.0		
Sodium and/or Potassium	38,997	1,695.6		
Sulfate as SO_4	1,844	38.4		
Chloride as Cl	73,860	2,082.8		
Iron as Fe	5.12	0.2		
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	122,694			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide - Total	52.5			
Resistivity, ohms/m at 77° F.	0.081			
Suspended Oil				

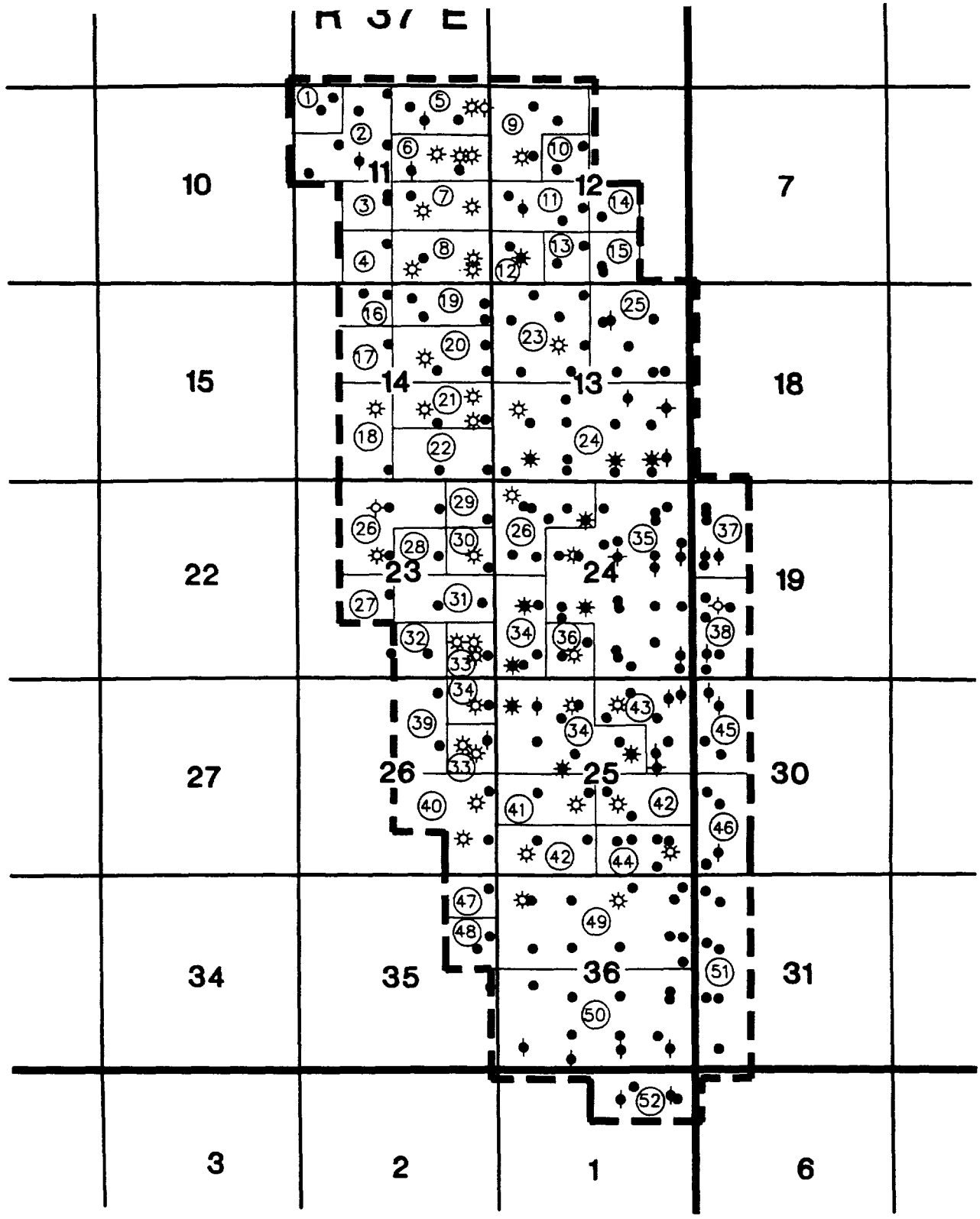
Results Reported As Milligrams Per Liter

Additional Determinations And Remarks: In comparing the results of these analyses, we see no evidence of any incompatibility between any combination of the waters represented herein. This is to say that a combination of the waters should not cause any precipitation, scaling, or other detrimental condition.

Form No. 2

cc: Mr. Dick Prentice, Midland
Mr. R.D. Thompson, Andrews
Mr. Jim Ellis, Jal
Central File System, Midland

By William C. Martin, R.A.

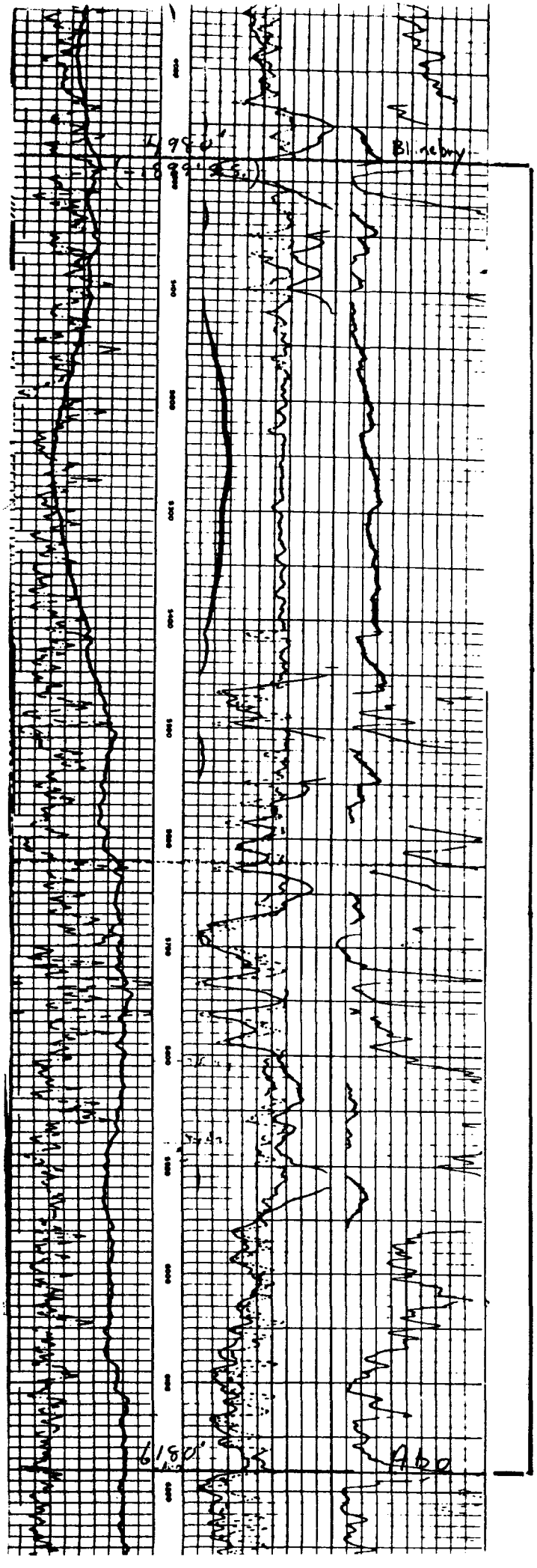


Unit Boundary

(51) **Tract Number**

Figure 14

ARCO Oil and Gas Company Division of AtlanticRichfieldCompany Central District Midland, Texas	
Proposed South Justis Unit Lea County, New Mexico Scale: 1"=4000'	
By: R. Alletag	Drawn By: RGJ Date: 12-90
Date: 12-90	Revised By: A.M.C. Date: 1/91
Dept: Land	Dwg No.: NM/SMPLT02 PSJU3725



Type Log

Amerada Hess

Ida Wimberly #4
Schlumberger Electrical Log
Sec. 24-T25S-R37E
DF 3079'
660' FSL, 990' FWL
Figure 15

Unitized Interval

Top 4980'

Bottom 6180'

APPENDIX A

Appendix A - Geological Data

Figure 1A - Blinebry Structure Map
Figure 2A - East-West Stick Cross Section A-A'
Figure 3A - East-West Stick Cross Section B-B'
Figure 4A - East-West Stick Cross Section C-C'
Figure 5A - East-West Stick Cross Section D-D'
Figure 6A - East-West Stick Cross Section E-E'
Figure 7A - East-West Stick Cross Section F-F'
Figure 8A - Blinebry Core Description - ARCO Justis Federal #2
Figure 9A - Blinebry Core Description - ARCO Langlie Federal #2