EXXON COMPANY, U.S.A.
POST OFFICE BOX 1600 • MIDLAND, TEXAS 79702-1600

MIDLAND PRODUCTION ORGANIZATION
OPERATIONS INTEGRITY

March 17, 1995

Application for Fluid Injection
New Mexico "S" State, Well No. 104
Lea County, New Mexico

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
2040 S. Pacheco
Santa Fe, New Mexico 87504

Exxon Corporation respectfully requests administrative approval of the enclosed application for fluid injection in the subject well. This well has been previously approved administratively for fluid injection into the San Andres formation. We are now seeking approval to inject into the San Andres and Grayburg formation. In support of this request, Form C-108 and its attachments are enclosed. The proof of publication of a legal notice will be forwarded to you as soon as received along with copies of certified mail cards showing proof that the application copies were sent to offset operators and the surface owner.

If you have any questions concerning this application, please call me at 915/688-7871.

Sincerely,

Marsha Wilson

Marsha Wilson
Operations Integrity

/mw
Attachments

c: New Mexico OCD
District I Office
Attn: Jerry Sexton
P. O. Box 1980
Hobbs, N.M. 88240

Offset Operators, Surface Owner

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

Revised 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ yes ☐ no

II. Operator: Exxon Corporation

Address: P. O. Box 1600 Midland TX 79702

Contact party: Marsha Wilson Phone: 915/688-7871

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 ☒ no
If yes, give the Division order number authorizing the project _____.

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

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

VII. Attach data on the proposed operation, including:

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

*VIII. Attach appropriate 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: Marsha Wilson Title Staff Office Assistant

Signature: Marsha Wilson Date: March 17, 1995

* 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. Log sent with initial completion report dated 4/46.

Crossection showing geologic data for proposed injection interval submitted with original*

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

*application dated 3-18-92.

III. WELL DATA

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

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

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

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

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

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

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

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

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

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

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

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

XIV. PROOF OF NOTICE

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

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

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

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

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

(4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 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.

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

INJECTION WELL DATA SHEET

Exxon Corporation	NM "S" State			
OPERATOR	LEASE			
104	1980' FEL 660' FSL	2	22S	37E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

Schematic

See Attached

Tubular Data

Surface Casing

Size 10-3/4 " Cemented with 400 sx.

TOC Surface feet determined by Used 400% excess

Hole size 13-3/8"

Intermediate Casing

Size 7-5/8 " Cemented with 1400 sx.

TOC Surface feet determined by

Hole size 9-7/8"

Long string

Size 5-1/2 " Cemented with 500 sx.

TOC 1025 feet determined by temp survey

Hole size 6-3/4"

Total depth 5195'

Injection interval

3650 feet to 4220 feet

(perforated) or open-hole, indicate which)

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

Baker TSN or Lockset (brand and model) packer at 3830 feet.

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres and Grayburg

2. Name of Field or Pool (if applicable) Eunice San Andres (South) Penrose-Skelly (Grayburg)

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

   If no, for what purpose was the well originally drilled? Oil production in the San Angelo formation

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) Perfed 5050-5180' and plugged back by setting a CIBP @ 4955' capped w/30' cmt; perfed 3890-4220' and plugged by setting CIBP @ 4020' w/10' cmt cap, set add'l CIBP @ 3880' w/40' cmt cap; perfed 3660-3808'

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

   Underlying - Glorieta @ 4985 (Paddock pool)

   Overlying - Queen not productive

SUPPLEMENT TO APPLICATION FOR AUTHORIZATION TO INJECT
NEW MEXICO "S" STATE #104
API #30-025-09954

V. Map is attached.

VI. Attached are wellbore sketches and tabular data on wells within the area of review.

VII. Proposed Operations

1. Average daily rate - 200 BPD
Maximum daily rate - 700 BPD
Volume of fluids to be injected - 400,000 Bbls

2. System is open.

3. Average injection pressure - 200 psig
Maximum injection pressure - 775 psig

4. The source of water that will be disposed of is from the Blinebry, Drinkard, Tubb, Abo, and Granite Wash pools. The water is being produced from wells in the Exxon operated New Mexico "S" State lease, located in Section 2, T-22-S, R-37-E. This salt water is already being disposed into the San Andres formation through a commercial well; therefore, there should be no compatibility problems. Additionally, water is trucked from the Exxon-operated Paddock Unit, Hardison, S State, V State,Penrose, G State, and Eumont Gas Com #1 leases.

5. NA

VIII. The proposed interval for injection (3650-4750) in the New Mexico "S" State #104 is a porous and permeable zone within the San Andres & Grayburg dolomite and limestone.

	Top	Base
Grayburg	3650 (SS-288)	3825 (SS-463) (top of San Andres) 175' thickness
San Andres	3825 (SS-463)	4985 (SS-1623) (top of Glorieta) 1160' thickness
	Total Thickness 1335'	

The San Andres interval is stratigraphically equivalent to existing injection in the Warren Petroleum, Eunice Plant #161 (Sec. 3/T22S/R37E), the Agua, #C-2 State SWD (Sec. 2/T22S/R37E) and the Exxon New Mexico "S" State WS #4 (Sec. 2/T22S/R37E). Injected fluids will be confined by impermeable limestones and anhydrite that occur at the base of the overlying Queen formation and at the base of the San Andres formation. No updip pathways or open faults are known to exist that would provide a connection with fresh water intervals near the surface. (cross section attached)

Fresh water in this area occurs in formations above the Salado salt and anhydrite. The top of the anhydrite/salt at this location is approximately 2350'. This unit also serves as an effective barrier between injected fluids and fresh water zones near the surface. No fresh water occurs below the proposed injection zone.

IX. Proposed stimulation program on Exxon New Mexico S State #104 SWD

1. Add perforations at 3680-3825 and 4220-4750.

2. Acidize perfs with 15% HCL using balls to divert.

3. Clean wellbore and prepare to inject.

X. Logs sent with initial completion report dated 4/46.

XI. Chemical analysis on 3 fresh water wells within one mile of the proposed disposal well are included.

XII. There are no indications of open faults or other hydrological connections between the proposed disposal interval and the shallower fresh water zones.

XIII. A signed statement of mailing of notice is attached, along with proof of publication.

P O BOX 1468
MONAHANS, TEXAS 79756
PH 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

709 W INDIANA
MIDLAND TEXAS 79701
PHONE 683-4621

RESULT OF WATER ANALYSES

LABORATORY NO. 39287

TO: Ms. Trisha Plemons
P. O. Box 3116, Midland, TX 79701

SAMPLE RECEIVED 3-16-92

RESULTS REPORTED 3-17-92

COMPANY Exxon Company, U.S.A. LEASE New Mexico "S"

FIELD OR POOL BDT

SECTION ___ BLOCK ___ SURVEY ___ COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Raw water - taken @ windmill (100 yds S. of Chevron's Rollon Brunson Letter "B" Unit #6.

NO. 2 Raw water - taken @ windmill (200 yds W. of Texaco's Baker "B" Battery #1).

NO. 3 Raw water - taken from water supply well (50 yds N. of John Hendrix Corp. Cossator "L" #2).

NO. 4

REMARKS: Samples taken by Tom Elrod, Martin Water Laboratories, Inc. 3-16-92

CHEMICAL AND PHYSICAL PROPERTIES	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0018	1.0015	1.0026	
pH When Sampled				
pH When Received	7.20	7.21	7.17	
Bicarbonate as HCO_3	293	281	325	
Supersaturation as $CaCO_3$				
Undersaturation as $CaCO_3$				
Total Hardness as $CaCO_3$	152	172	852	
Calcium as Ca	29	36	168	
Magnesium as Mg	19	20	105	
Sodium and/or Potassium	205	99	342	
Sulfate as SO_4	233	88	488	
Chloride as Cl	81	47	582	
Iron as Fe	0.04	0.04	0.07	
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	860	570	2,010	
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,				
Hydrogen Sulfide	0.0	0.0	0.0	
Resistivity, ohms/m at 77° F.	9.06	14.90	3.20	
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Nitrate, as N	1.0	2.0	4.6	

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.

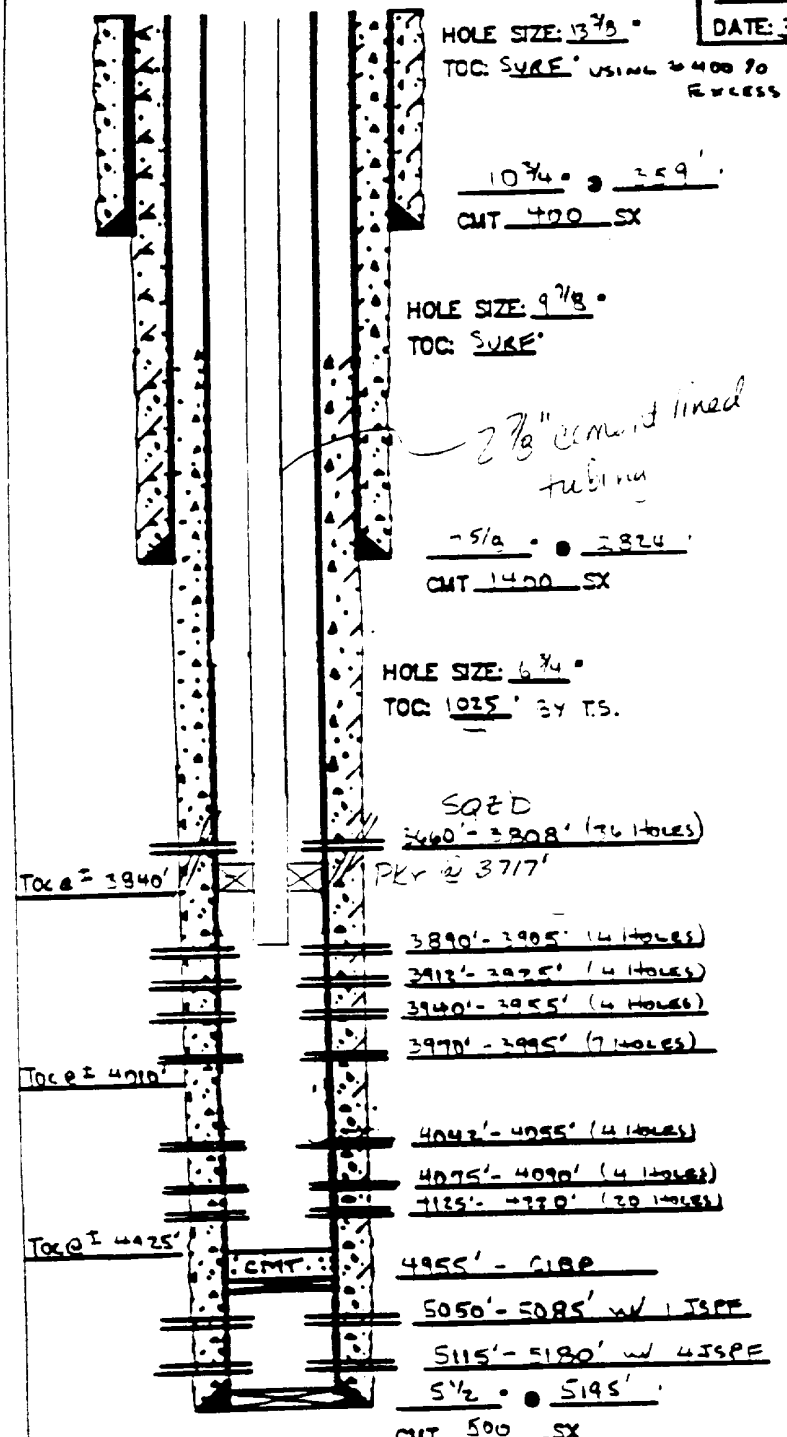
orm No. 3

By Waylan C. Martin, M.A.

WELLBORE SKETCH AND WELL HISTORY

ELEV.: KB 3363 ': 11.4 ' ABOVE GHF

LEASE & WELL NAME: NEW MEXICO "S" STATE # 104
FIELD: BLINEBRY-DRINKARD-TUBB COUNTY: LEA ST: N.M.
LOCATION: 1980' FEL & 660 FSL SEC-2, T-22-S, R-37 E 2 MI. SE OF EUNICE, NEW MEXICO
DATE: 2-25-1991 BY: MARK REV.: BY:



CASING RECORD

SURFACE CASING

O.D.	WT/FT	GRADE	SET AT
10 3/4"	40.5#	H-40	359'
7 5/8"	26.4#	S-80	3824'

PRODUCTION CASING

5 1/2"	14#	H-40	5195'

TUBING

NO. JTS.	O.D.	THD.	TYPE	WT.	GDE.	SET

WELL HISTORY:

4/46 - D & C'D - PERF'D THE SAN ANGELO FROM 5115'-5180' w/ 4 SPF IP = 664 BOPD, GOR 795

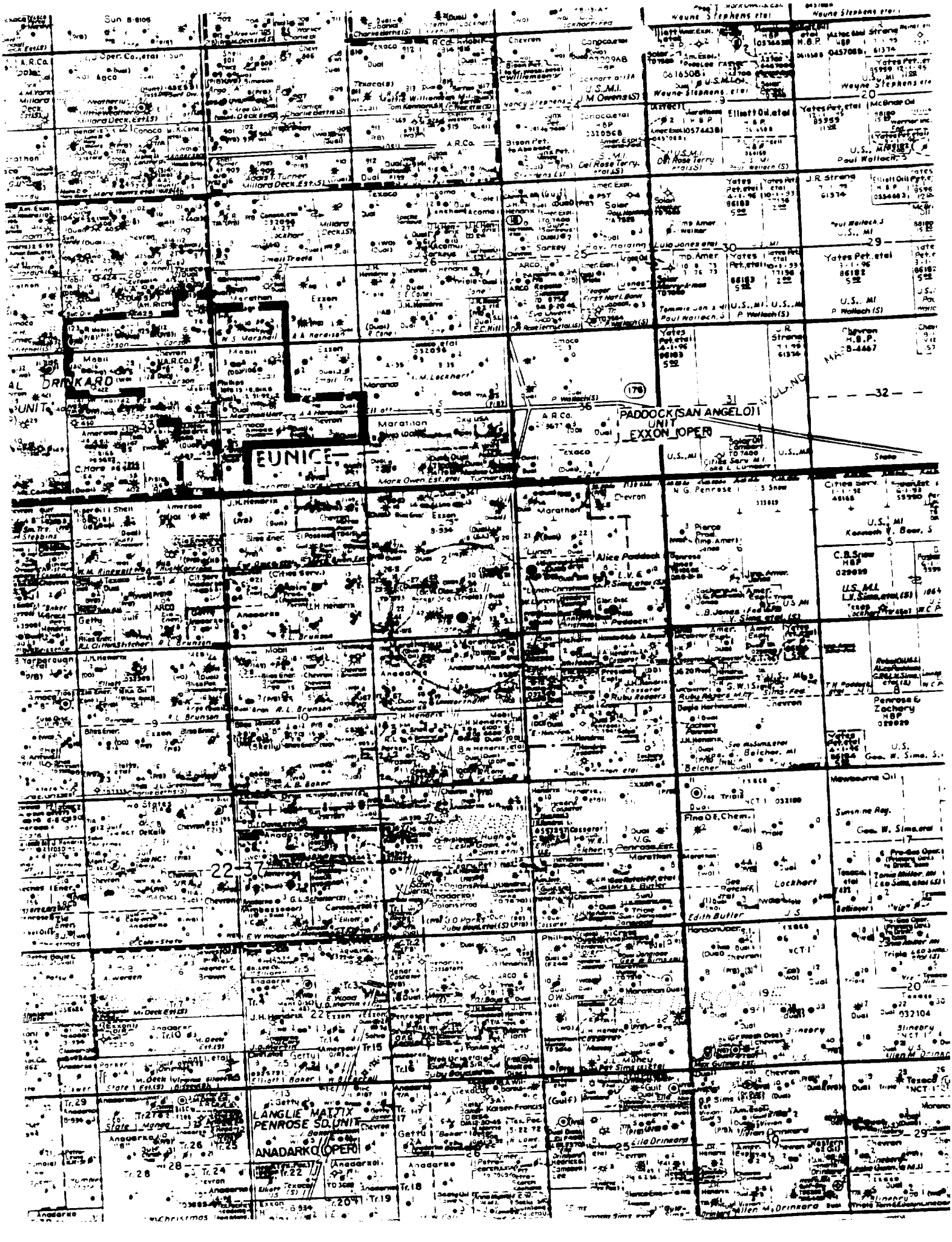
10/72 - ADDED PERFS IN SAN ANGELO, PERF 5050'-5085' w/ 1 JSPF

7/77 - PLUG BACK SAN ANGELO, RE-COMPLE IN SAN ANDRES; SET CIBP @ 4955' CAPPED w/ 20' CMT. PERF'D w/ 1 SHOT/FT

3890'-3905' - 4 SHOTS
3912'-3925' - 4 SHOTS
3940'-3955' - 4 SHOTS
3970'-3995' - 7 SHOTS
4042'-4055' - 4 SHOTS
4075'-4090' - 4 SHOTS
4125'-4320' - 20 SHOTS
49 SHOTS TOTAL

3/80 - SET CIBP @ 4020' & DUMPED 1 SX (± 10') CMT ON TOP

8/80 - PLUG BACK SAN ANDRES AND RE-COMPLETE IN GRAYBURG; SET CIBP @ 3880' & CAPPED w/ 4 SX (± 40') CMT. PERF'D FROM 3660'-3908' w/ 36 HOLES. RIH w/ MUD JT, PS, S/N, 120 JTS TBG. ** THERE MAY BE A TAC IN STRING **


EUNICE
DRINKARD UNIT
PADDOCK (SAN ANGELO) UNIT EXXON (OPER)
LANGLIE MATTIX PENROSE SD. UNIT
ANADARKO (OPER)
Sun
Mobil
Amoco
Marathon
Chevron
Exxon
Texaco
Conoco
Getty
Phillips
Shell
ARCO
Yates Pet. etal
Elliott Oil etal
Alice Paddock
Penrose Est.
Penrose & Zachary
Sunshine Ray
Edith Butler
Lockhart
Belcher
Ruby Rogers
Tomie Miller, Jr.
Leo Sims, etal
Allen M. Drinnard
Kenneth V. Beer, S
Geo. W. Sims, etal
Newbourne Oil
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WELLS WITHIN 1/2 MILE RADIUS OF
NEW MEXICO 'S' STATE #104
T-22-S, R-37-E LEA COUNTY

WELL NAME	SECT. #	FOOTAGE	DATE DRILLED	DEPTH	COMPLETION (PERFS)	CSG	DEPTH	CMT(SX)
Walter Lynch #2	1	1980 FS, 660 FW	10-13-45	5220	5100-5160	13-3/8" 9-5/8" 7"	337 2854 5170	350 2100 350
Walter Lynch #3	1	660 FS, 660 FW	11-15-45	5220	5120-5180	13-3/8" 9-5/8" 7"	336 2856	250
Walter Lynch #5	1	330 FSL, 330 FWL	7/28/77	7897	7338-66	8-5/8" 5-1/2"	1175 7897	350 1230
Elliott B-12 #1	12	660 FN, 660 FW	4-3-85	5151	4124-4220	13-3/8" 7"	169 5151	150 450
Elliott B-12 #2	12	567 FN, 467 FW	12-12-75	7425	6221-7001 7326-7388	9-5/8" 7"	1150 7425	550 1250
Lou Wortham #5	11	990 FN, 1650 FW	12-20-70	4750	4116-4123	9-5/8" 7"	366 4750	200 450
Lou Wortham #3	11	660 FN, 1800 FW	11-26-61	3950	3742-3784	8 5/8" 5 1/2"	290 3950	225 350
Anadarko #5	11	660 FN, 1980 FW	7-10-46	5165	5087-5165	13-3/8" 8-5/8" 5-1/2"	310 2798 5087	300 3000 500
Lou Wortham #13	11	330 FN, 2080 FW	7-18-75	7390	6244-6339 7115-7211	8-5/8" 4-1/2"	1255 7390	675 1300
Lou Wortham #1-C	11	330 FN, 2310 FE	2-13-70	4700	3870-4186 4023-4186	9-5/8" 7"	354 4700	225 530
Lou Wortham #1-B	11	660 FN, 1980 FE	4-26-46	5150	5090-5150	13-3/8" 8-5/8" 5-1/2"	304 2794 5090	850 4000 500
Anadarko #13	11	330 FN, 1980 FE	12-2-78	7580	6344-6411	9-5/8" 7"	1288 7580	650 2000
Lou Wortham #3-C	11	660 FN, 990 FE	10-15-83	4320	3830-4320	8-5/8" 5-1/2"	302 3830	150 250
Lou Wortham #2-C	11	1878 FN, 2407 FE	5-11-70	4700	3866-4238	9-5/8" 7"	355 4700	250 675
Lou Wortham #1-A	11	660 FN, 660 FE	1-18-46	5147	5095-5147	13-3/8" 8-5/8" 5-1/2"	300 2807 5095	 250 300
Lou Wortham #14	11	520 FN, 330 FE	4-22-76	7540	7289-7515	9-5/8" 7"	1265 7540	650 2680
Lou Wortham #19	11	680 FN, 880 FW	2-4-86	7400	6549-7024	9-5/8" 7"	1200 7400	700 1995
Lou Wortham #1	11	660 FNL, 2310 FEL	6-27-66	3820		8-5/8" 5-1/2"	301 3820	200 250

NOTE: See attached wellbore sketches for wells located in Section 2

DATE: 3/5/86

WELLBORE SKETCH

LEASE - WELL: PADDOCK UNIT #24

FIELD: PADDOCK

FIELD SUPT: EB TAYLOR

TUBING: SIZE ____ GRADE ____
JTS ____ SET ____

BOTTOM HOLE ARRANGEMENT

ELEV DF RKD 2370, 13' ABOVE GL

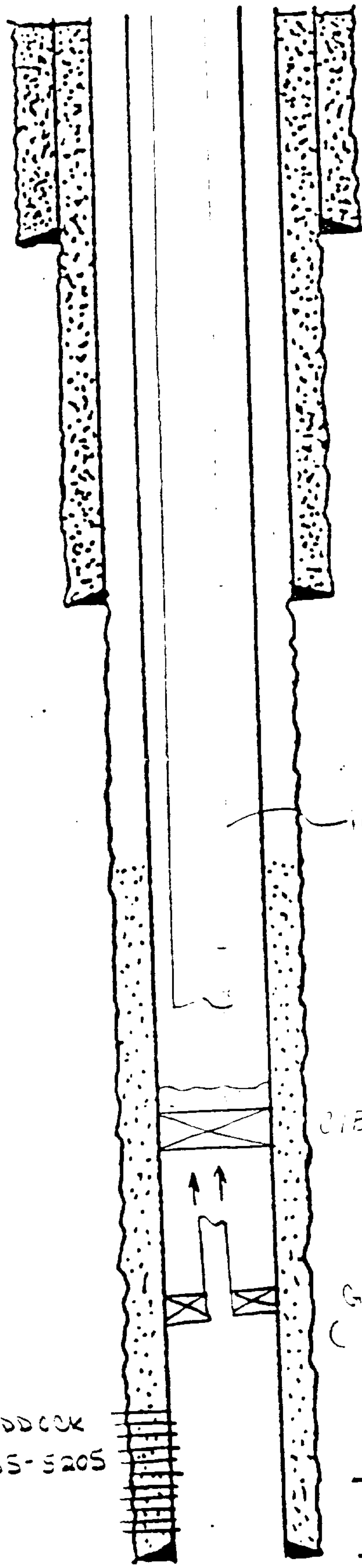
WELL HISTORY

2/46 PERF 5070-5205
AC w/ 4000 GAL 15% HCL

4/59 AC w/ 10,000 GAL 15% HCL

1/68 PERF 5055-5070
AC w/ 3000 GAL 15% HCL

3/86 [illegible]



9 3/4" @ 366'

[illegible] CMT TO SURF

7 5/8 @ 2788

TOC 440 [illegible]

165 jts 2 3/8" tbg

ILLEGIBLE

CIBP @ 4985' [illegible]

2 3/8" TBG (PC)

GUIBERSON HOOKWALL PKR @ 5016
(10 PT TENSION)

PADDOCK
5055-5205

5 1/2 4# @ 5209

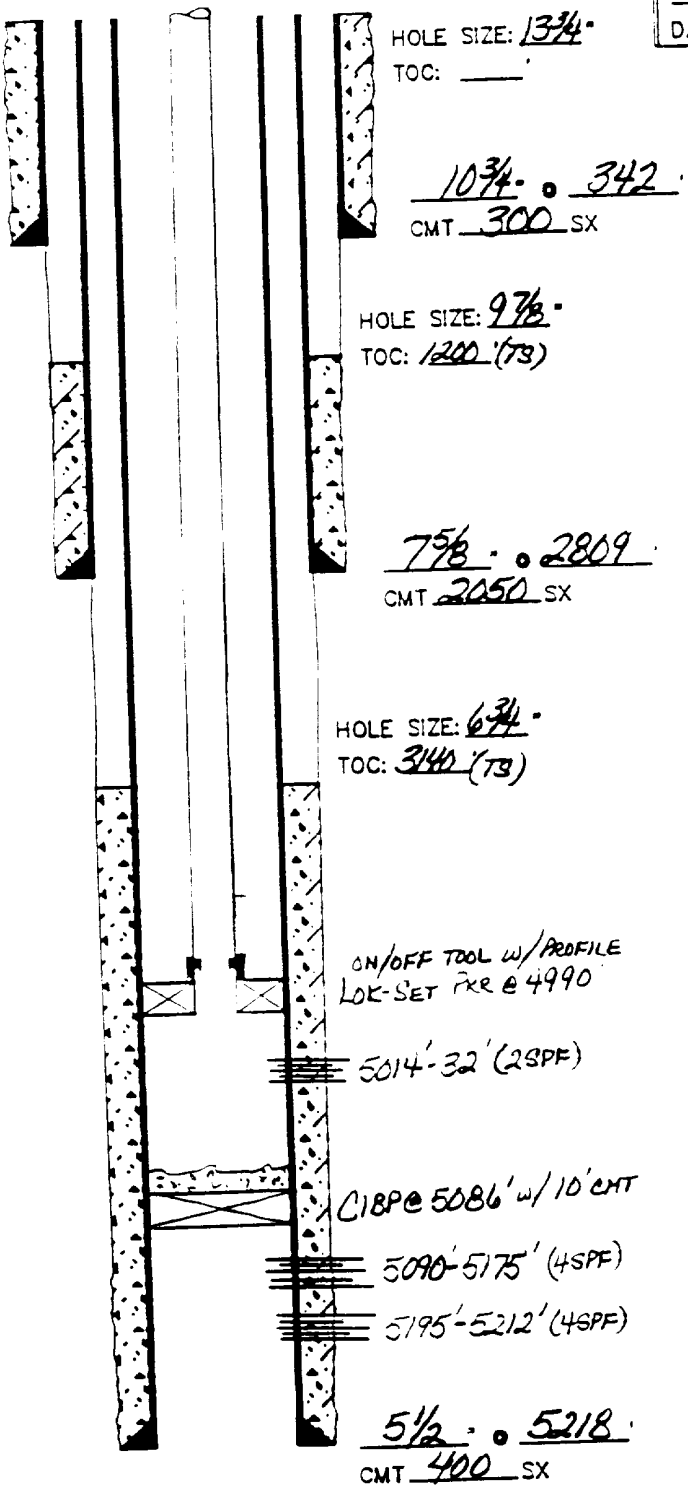
CMT w/ 300 SX TOC 2980 (TS)

WELLBOR SKETCH AND WELL HISTORY

ELEV.: KB 3364.10 ' ABOVE 5½" CHF

LEASE & WELL NAME: PADDOCK UNIT #31
FIELD: PADDOCK COUNTY: LEA ST.: NM
LOCATION: 1980' FSL, 660' FEL, SEC 2, T22S, R37E

DATE: 6-18-91 BY: RS BOSE REV.: BY:



TD: 5220' PBD: 5214'

CASING RECORD

SURFACE CASING

O.D.	WT/FT	GRADE	SET AT
10¾	40.5	H-40	342
7⅝	26.4	J-55	0-2450
~~7⅝~~	~~24~~	~~H-40~~	~~2450-2809~~

PRODUCTION CASING

5½	14	J-55	0-4693
5½	15.5	J-55	4693-5218

TUBING

NO. JTS.	O.D.	THD.	TYPE	WT.	GDE.	SET AT
	2⅜	8RD	EUE	4.7	J-55	4990

WELL HISTORY:

11/45 DEC PERF 5090'-5175' (4SPF) AND 5195'-5212' (4SPF). ACIDIZE EACH W/2000 GAL 20% HCL.

1/53 ACIDIZE 5090'-5212' W/1500 GAL GEL AND 10000 GAL UNISOL ACID

10/59 ACIDIZE 5090'-212' W/10000 GAL ACID USING BALL SEALERS

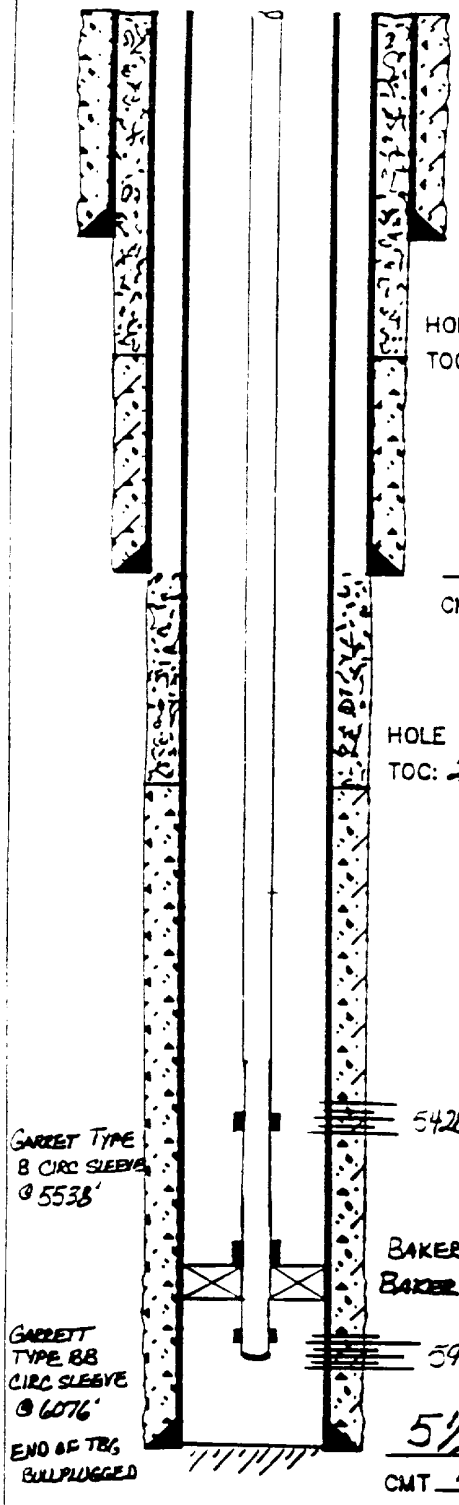
AFTER WORKOVER SKETCH

WELLBORE SKETCH AND WELL HISTORY

ELEV.: KB 3362', 12' ABOVE BHF

LEASE & WELL NAME: NEW MEXICO 'S' STATE #23
FIELD: B-D-T COUNTY: LEA ST.: NM
LOCATION: 990' FE&SL, SEC 2, T22S, R37E

DATE: 5-31-91 BY: RSBaker REV.: BY:



TD: 6200' PBD: 6199'

CASING RECORD

SURFACE CASING

O.D.	WT/FT	GRADE	SET AT
10 3/4	40.5	H-40	347
7 5/8	24	H-40	2595

PRODUCTION CASING

5 1/2	14	J-55	0-5526
5 1/2	15.5	J-55	5528-6200

TUBING

NO. JTS.	O.D.	THD.	TYPE	WT.	GDE.	SET A
196	2 3/8	8RD	EUE	4.7	J-55	6118'

WELL HISTORY:

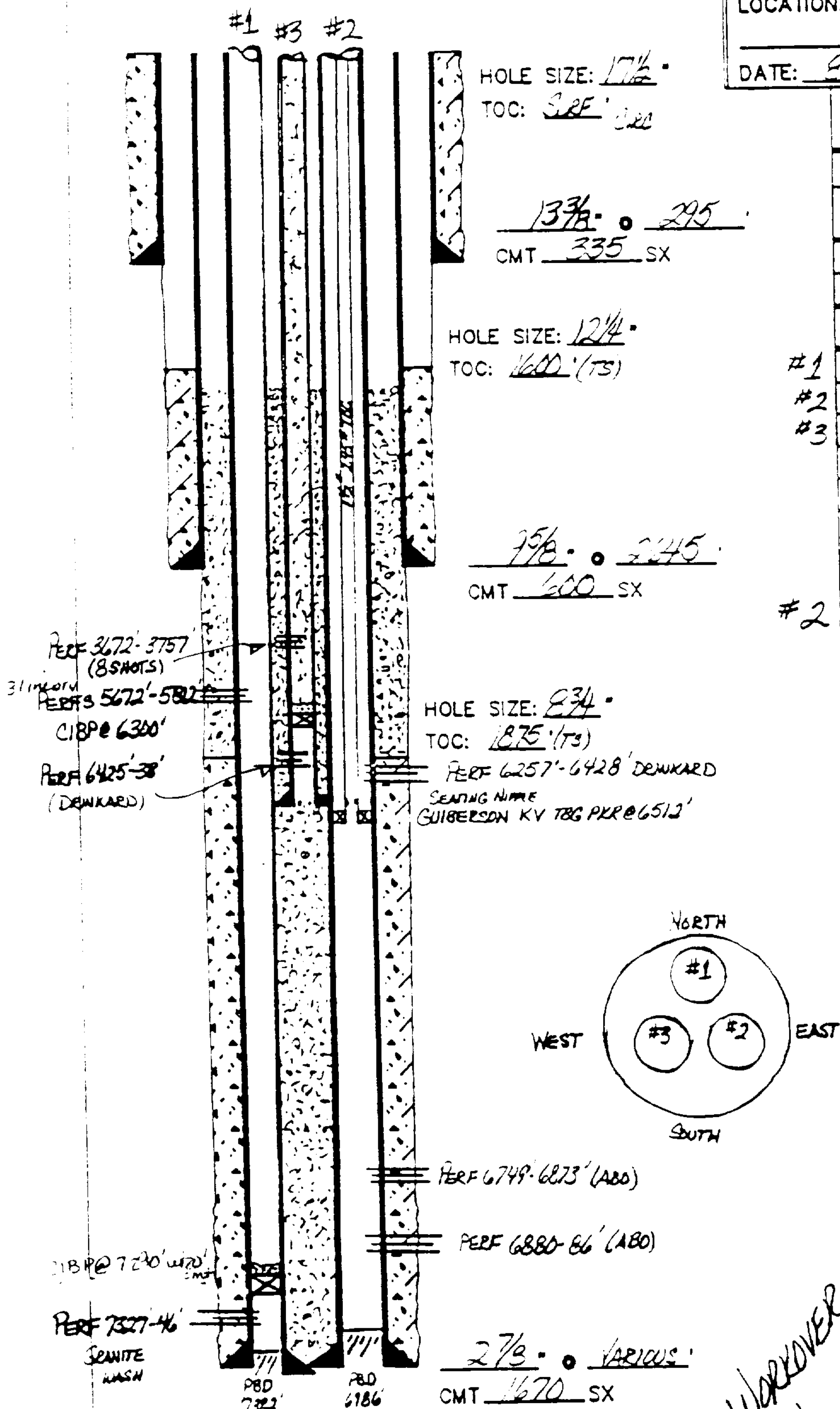
4/55 DEC PERF 5996'-6011', 6023'-48', 6060'-118', 6128'-46', 6154'-85' (2SPF). ACIDIZE W/ 3000 GAL & 9000 GAL 15%.
PERF BLINEBRY 5428'-70', 5490'-5508', 5515'-45' (2SPF). ACIDIZE W/ 500 GALS MUD ACID AND 3000 GALS 15%.

WELLBORE SKETCH AND WELL HISTORY

ELEV.: KB 3367'. 11' ABOVE GL

LEASE & WELL NAME: NEW MEXICO 'S' STATE 24
FIELD: B-D-T COUNTY: LEA ST.: N
LOCATION: 1650' FSL, 1980' FEL SEC 2 T22S R37E

DATE: 2-8-90 BY: RSB REV.: ______ BY: ______



AFTER WORKOVER SKETCH

TD: 7411' PBD: ______

CASING RECORD

SURFACE CASING

O.D.	WT/FT	GRADE	SET A[T]
13⅜	48	H-40	295'
9⅝	32.3	H-40	2645'

PRODUCTION CASING

	O.D.	WT/FT	GRADE	SET AT
#1	2⅞	6.4	J-55	7405
#2	2⅞	6.4	J-55	7404
#3	2⅞	6.4	J-55	6506'

TUBING

	NO. JTS.	O.D.	THD.	TYPE	WT.	GDE.	SE[T]
#2	203	1½	10RD		2.45	N-80	[illegible]

WELL HISTORY:

5/63 PERF DRINKARD 6425'-6438', PERF ABO 6878'-6889'
PERF GRANITE WASH 7327'-7346'. SAND FRAC GRANITE
WASH w/4000#. ACIDIZE ABO w/1000 GALS. SQZ
ABO w/50 SX. REPERF 6880-86'. ACIDIZE ABO
2000 GAL. SQZ & REPERF 6880-86'. ACIDIZE w/3500
ACIDIZE DRINKARD w/2250 GAL. FRAC w/10000#
SET CIBP @ 6300'. PERF GRAYBURG 3672'-3757
HOLES). SAND FRAC w/40000#.

10/63 SAND FRAC ABO w/2500#.

12/67 SAND FRAC GRAYBURG w/32500#.

3/75 PERF ABO 6749'-6873'. SAND FRAC. PERF 6257'-
SAND FRAC. RAN TBG & PKR.

12/91 String #2 P&A'd
cmt to surface
String #1 Set CIBP @ 7290 w/70' cmt
Perf 5672-5812' (Blinebry)
Frac w/25 bbl 15% HCl w/NEFe
Stuck swab tools @ 5981'

STRING #3 HAS BEEN SI SINCE 4/68

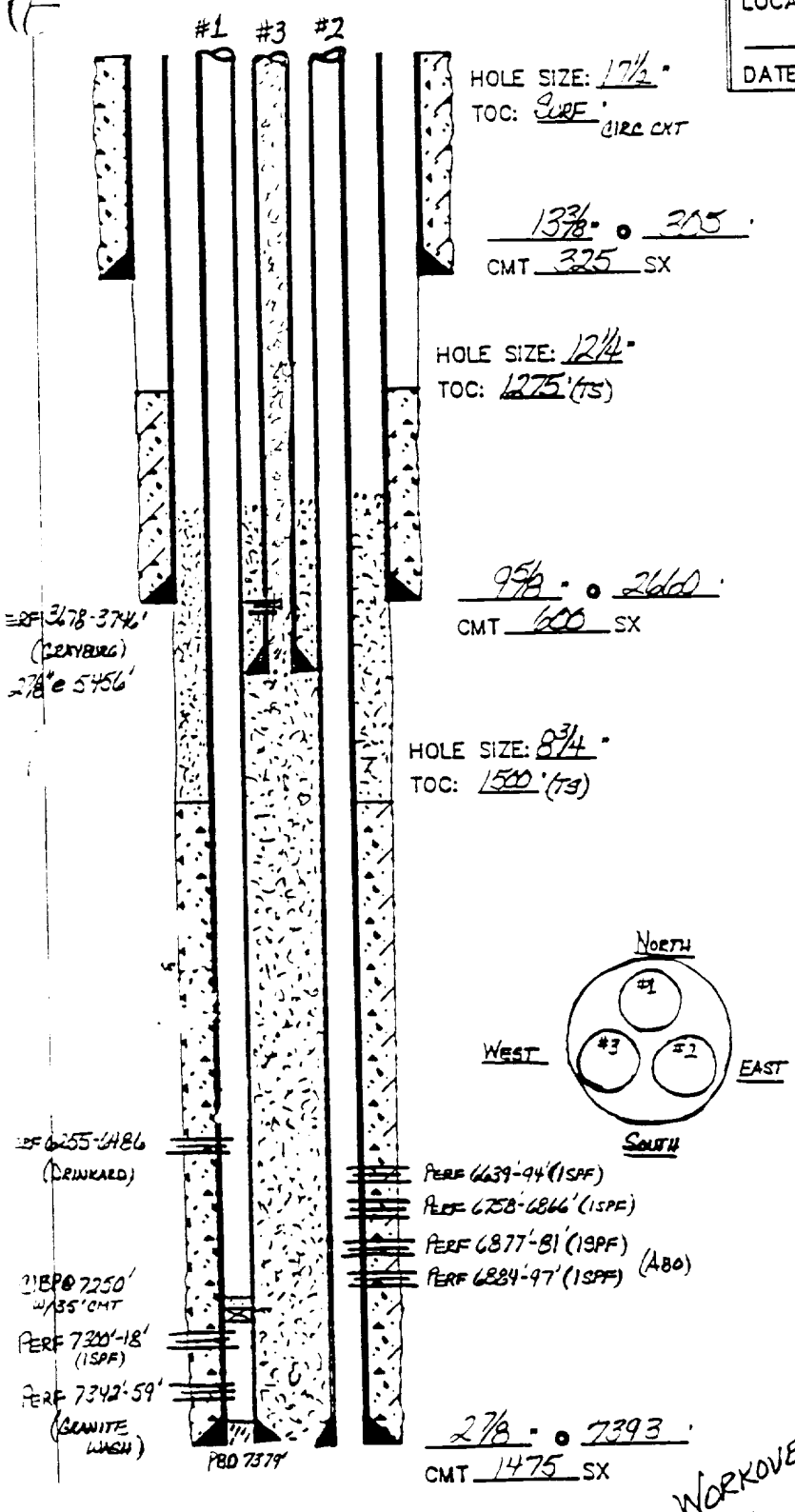
#1 ROD STRING: 2"x1¼"x12'x16' RHTC, 210-¾"x25' RODS, 2..
25' RODS, 22' of ⅞" SUBS, 16'x1¼" BUSH ...
1-2'x¾" SUB ON TOP OF PUMP

WELLBORE SKETCH AND WELL HISTORY

ELEV.: KB 3368', 11' ABOVE GL

LEASE & WELL NAME: NEW MEXICO 'B' STATE #25
FIELD: B-D-T COUNTY: LEA ST.: NM
LOCATION: 810' FSL, 2130' FWL, SEC 2, T22S, R37E

DATE: 8-1-90 BY: RSB REV.: BY:



AFTER WORKOVER SKETCH

TD: 7395' PBD: _____'

CASING RECORD

SURFACE CASING

	O.D.	WT/FT	GRADE	SET AT
	13⅜	48	H-40	305'
	05/8	32.3	H-40	2660'

PRODUCTION CASING

#2	2⅞	6.4	J-55 NUE	7393'
#3	2⅞	6.4	J-55 NUE	5456'
#1	2⅞	6.4	J-55 NUE	7393'

TUBING

	NO. JTS.	O.D.	THD.	TYPE	WT.	GDE.	SET
#3	114	1½	IORD		1.97		381

WELL HISTORY:

7/63 D&C PERF GRAYBURG IN STRING #3 3678'-3746' PERF ABO IN STRING #2 6827'-81', 6834'-97' PERF GRANITE WASH 7306-18' & 7342-59'

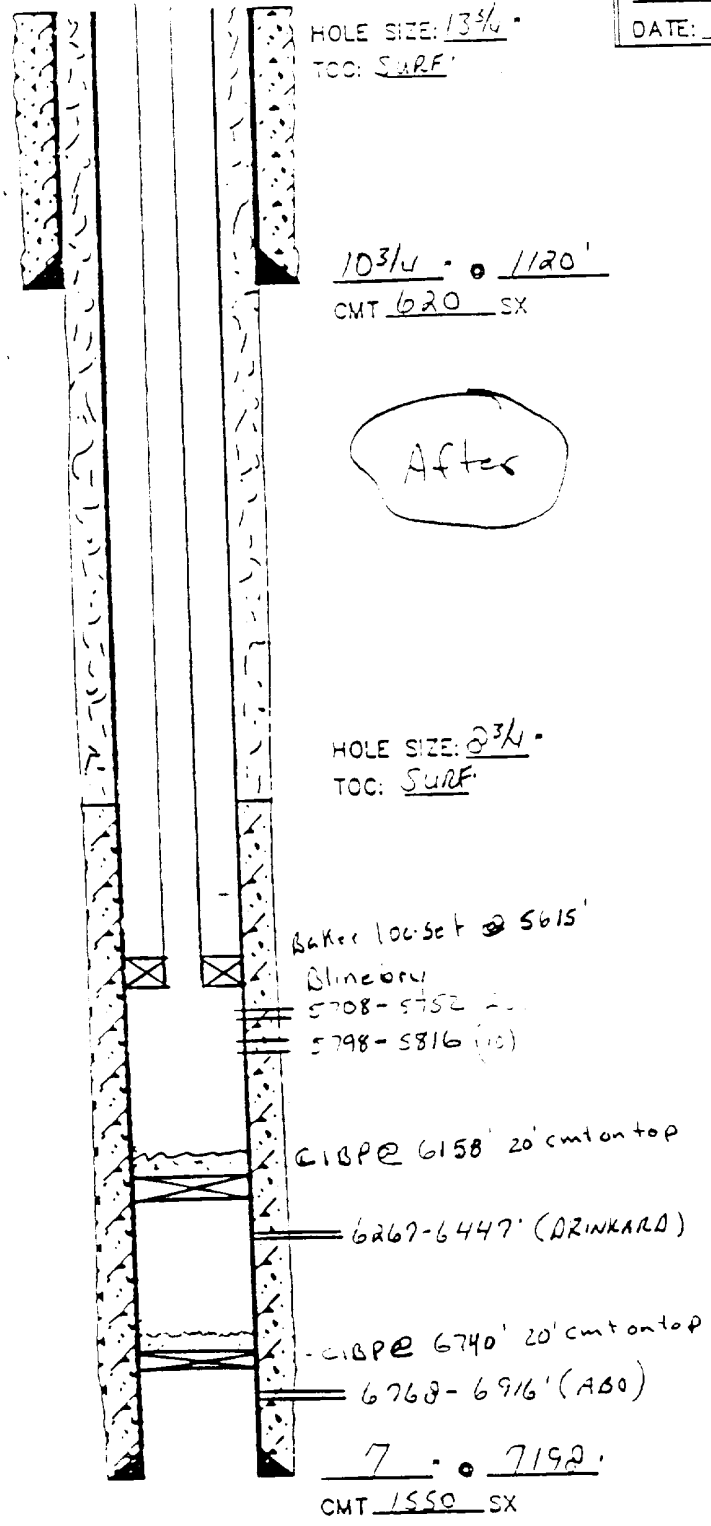
2/76 SET CIBP IN STRING #1 @ 7250' CAPPED W/35' C PERF STRING #2 6758'-6866'. PERF STRING #1 FROM 6255-6486' (53 HOLES) PERF STRING #1 6639'-94'

12/91 STRING #3 CIRCULATED 36 bbls CEMENT TO SURFACE P&A'd

WELLBORE SKETCH AND WELL HISTORY

KB 3383', 35' ABOVE GL

LEASE & WELL NAME: N.M. "C" ST. #28
FIELD: BDT COUNTY: LEA ST.: NM
LOCATION: SE/NW SEC. 2, T22S, R37E
DATE: 11/22/89 BY: RWG REV.: 4/17/90 BY: GWM



TD: 7200' PBD: 7067'

CASING RECORD

SURFACE CASING

O.D.	WT/FT	GRADE	SET AT
10¾	40.5/41.85	K-55/A	1120'

PRODUCTION CASING

7	23/26	N-80	7198'

TUBING

NO. JTS.	O.D.	THD.	TYPE	WT.	GDE.	SET AT
184	2⅜	8rd	EUE	4.7		5700

WELL HISTORY:

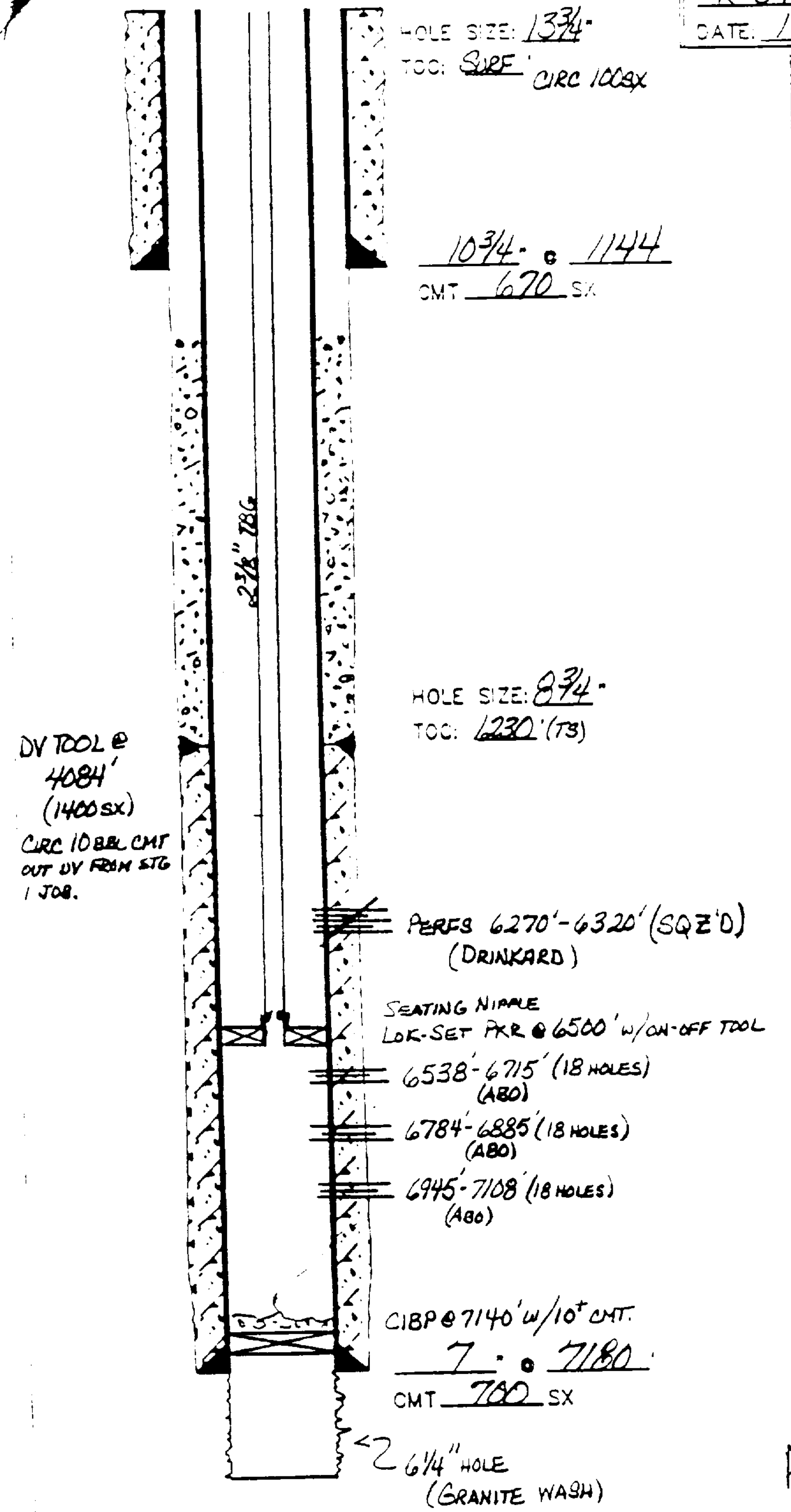
5/76 OPEN: PERF 6768-916' (47) TRT W/ 12000 GAL K-1 + 13000 GAL 20% HCL
IP 221 BO 401 MCF 216W
PERF 6267-447' (51) TRT W/ 17500 GAL K-1 + 19,500 GAL 20% HCL
IP 2400 MCF

7190 SI CIBP @ 6740' capped w/20 cmt
SI BP @ 6158' capped w/20' cmt
Perf 5708-5752 (2 JSPF), 5798-5816
PPI Acid job w/ 3766l acid
Frac 38735 gals Fluid 60351# 20/40 Sand

WELLBORE SKETCH AND WELL HISTORY

KB 3370'. 16' ABOVE GL

LEASE & WELL NAME: New Mexico "S" State #30
FIELD: B-D-T COUNTY: LEA ST.: NM
LOCATION: 2160' FSL, 690' FEL, Sec 2, TWP 22-S, R 37E
DATE: 1-11-91 BY: RSB REV.: BY:



TD: 7610' PBD: 7610'

CASING RECORD

SURFACE CASING

O.D.	WT/FT	GRADE	SET AT
10¾	51	K-55	1144

PRODUCTION CASING

O.D.	WT/FT	GRADE	SET AT
7	26	N-80	7180'-6400'
7	26	K-55	6400'-4440'
7	23	K-55	4400'-1517
7	23	K-55	1517'-40'
7	26	K-55	40'-Surf

TUBING

NO. JTS.	O.D.	THD.	TYPE	WT.	GDE.	SET AT
	2⅜"					

WELL HISTORY:

10/76 D&C as dual completion. Acidize Granite Wash w/7000 gals gelled 15% HCL. Perf Drinkard 6270-79, 6291-94, 6305-08, 6312'-20' (1SPF). Acidize w/100 gal 20% HCL. Frac w/7500 gal K-1 Pad, 8500 gal 20% HCL. Run dual pkr. Put Granite Wash on pump.

7/91 set CIBP @ 7140' cap w/10' cmt. SQZ 6270-6320', Perf 6538-7108' Ac[illegible] HCl ? w 4900 gal - CXE

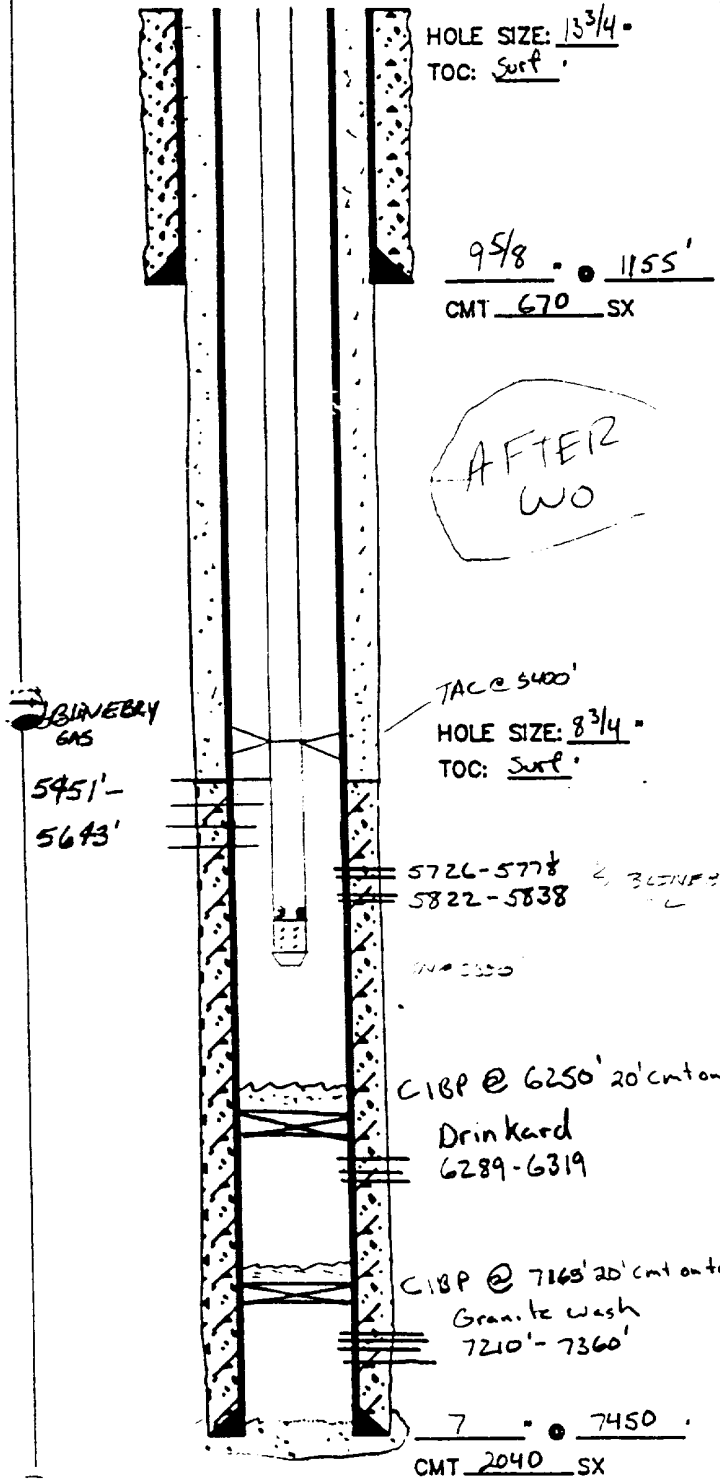
AFTER WORKOVER SKETCH

WELLBORE SKETCH AND WELL HISTORY

ELEV.: KB 3375 ', 16 ' ABOVE GL

LEASE & WELL NAME: New Mexico "S" State #32
FIELD: BDT COUNTY: Lea ST.: N.M.
LOCATION: Unit G Sec 2 TWP-22S R36E 37e

DATE: 4/18/90 BY: GZM REV.: PAS BY: 6/3/94



7" 29# 0-75 KB-83'
23# K-55 83'-1707'
20# K-55 1707'-2957'
23# K-55 2957'-4433'
26# K55 4433'-6232'
29# 0-95 6232'-7450'

TD: 7450 ' PBD: 7407 '

CASING RECORD

SURFACE CASING

O.D.	WT/FT	GRADE	SET AT
9 5/8"	36#	K-55 LTC	1155'

PRODUCTION CASING

7"	20,23,26,29	K-55	7450'
SEE [illegible] LINER FOR TALLY			

TUBING

NO. JTS.	O.D.	THD.	TYPE	WT.	GDE.	SET AT
184	2 7/8	8rd	EUE	4.7		5700

WELL HISTORY:

12/76 DFC Completed in Drinkard & GW
Perf Granite Wash 7210 - 7360'
Acd w/ 15% HCL, Sand oil frac 7279 - 736
w/30,000 gal gelled oil, 34000 # 20-40 sa
Perf Drinkard 6289 - 6319, Acid frac
w/25000 gal K-1 pad & 20% HCl

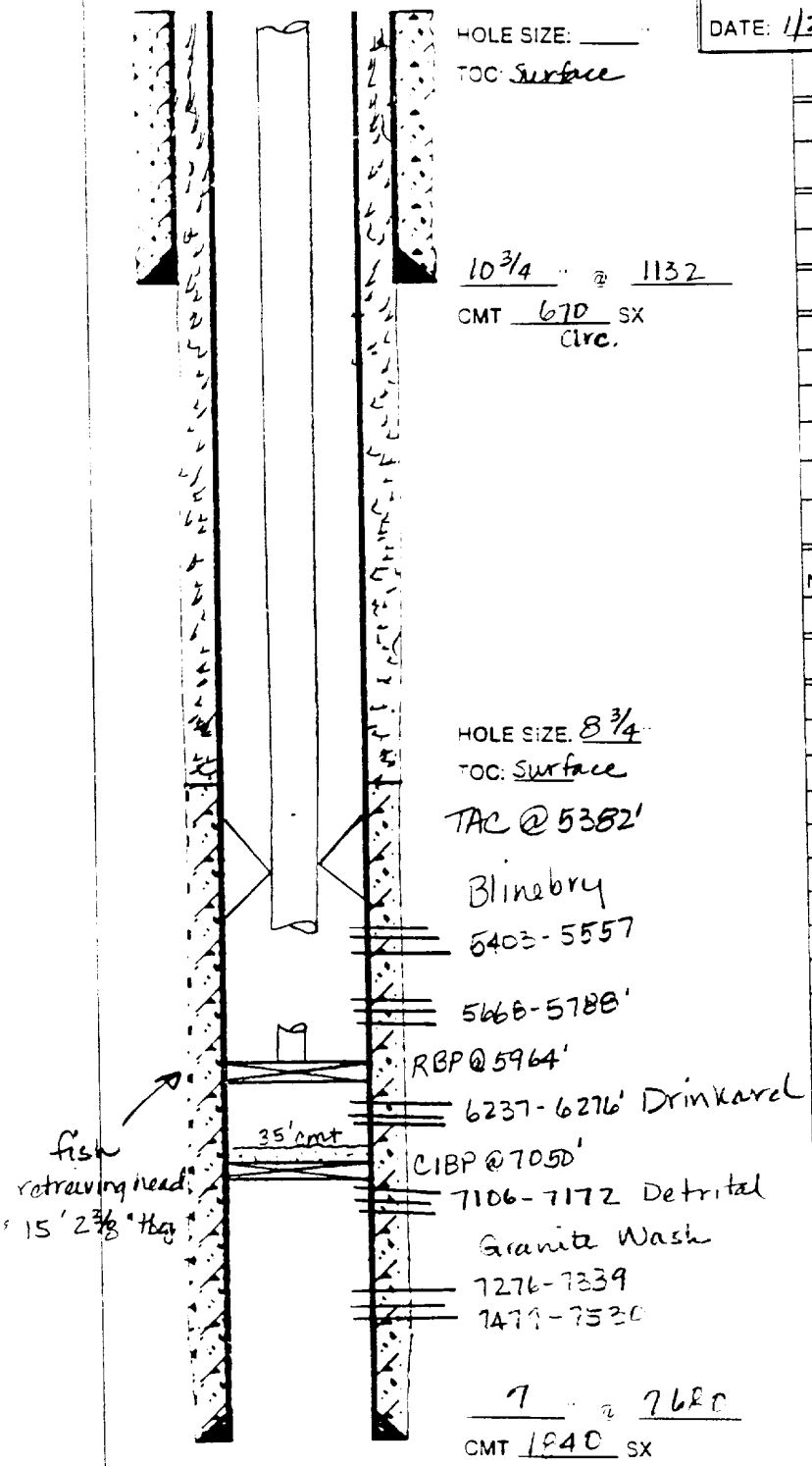
8/90 Set CIBP @ 7165 w/ 20' cmt
Set CIBP @ 6250 w/20' cmt
Perf Blinebry 5726 - 5838' [illegible]
Frac 738 bbls slurry, 55000 # 20/40 [illegible]
PINOP 120 BOI, BWI 200 MCF

6/94 Perf 5451-5643
Frac w/ 169K # sd IP 25 bopd/ 736 Mcfd

WELLBORE SKETCH AND WELL HISTORY

LEASE & WELL NAME: NM S State #33
FIELD: B-D-T COUNTY: Lea ST.: NM
LOCATION: 350' FSL & 860' FEL, Sec 2
T-22-S, R-37-E
DATE: 1/20/95 BY: TAP REV.: _____ BY: _____

ELEV: KB 3367 ', _____ ' ABOVE _____



TD: 7683 PBD: 7640

CASING RECORD

SURFACE CASING

O.D.	WT/FT	GRADE	SET AT
10 3/4"	40.5 & 48	K55	1132

PRODUCTION CASING

7"	23 & 26	J55	7680

TUBING

NO. JTS.	O.D.	THD.	TYPE	WT.	GDE.	SET AT
174	2 3/8"					

WELL HISTORY:

76 - D&C GW; Drinkard dual

77 - Sand frac GW

6/93 - Set CIBP @ 7050' cap w/35' cmt
Perf 5668-5788 frac 66K# sd screened out
Perf 5403-5557, frac 141K# sd
IP 147 bopd/1114 Kcfd

Date: 4/19/90 Lease, Well: NEW MEXICO "S" STATE #24

Elev. 3351' , _____

above _____

H2S 0 PPM

Field: BDT

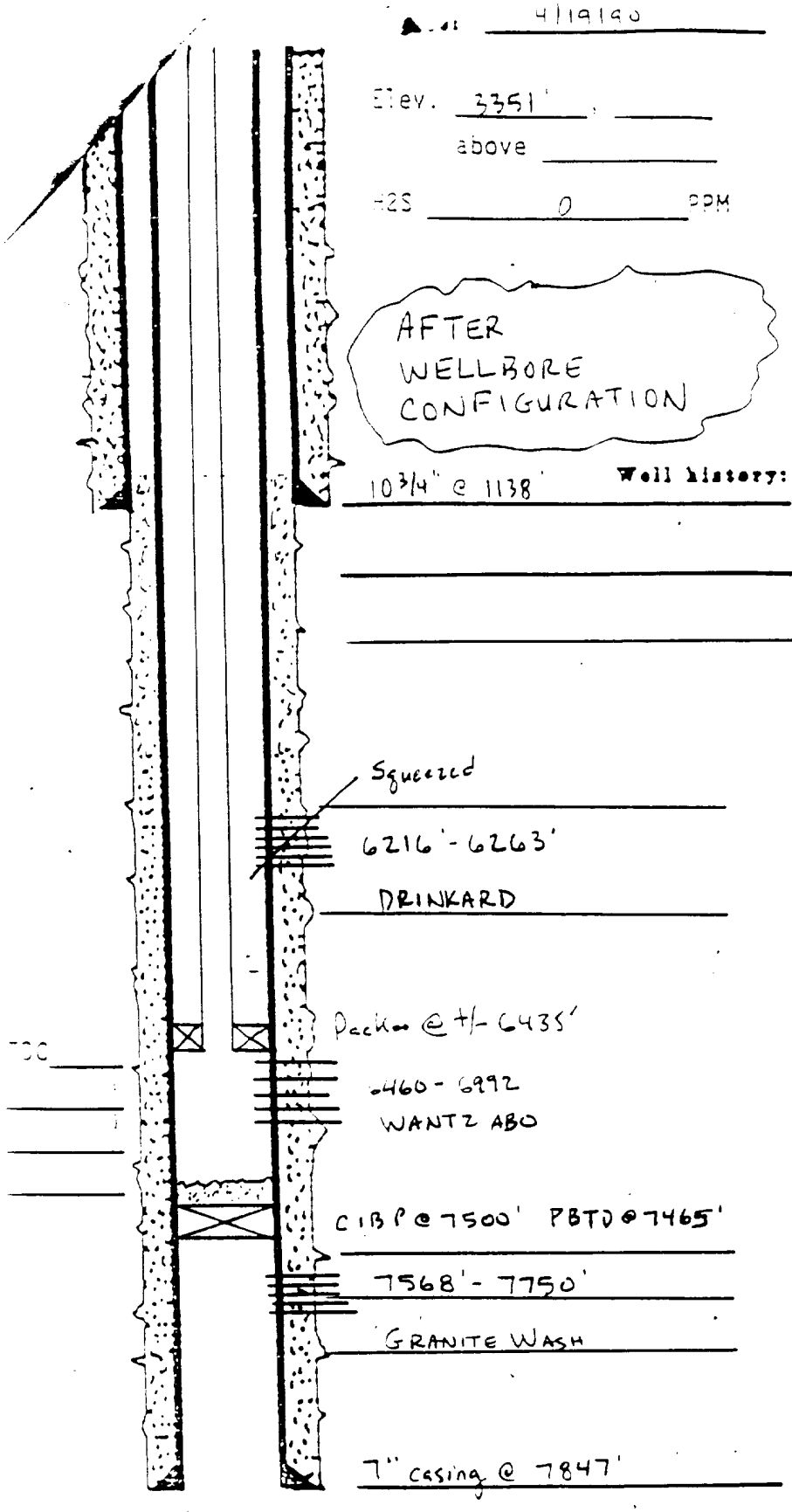
Field Supt: McBEE

Tubing Size 2 3/8" Grade _____

Bottom Hole Arrangement

_____

_____



Well history:

11/76 D & C DUAL COMP.

Drinkard perfed, frac w/ 12,000 gal. K-1 + 13,000 gals 20% HCL. Acidized w/ 2000 gals 7 1/2% HCL

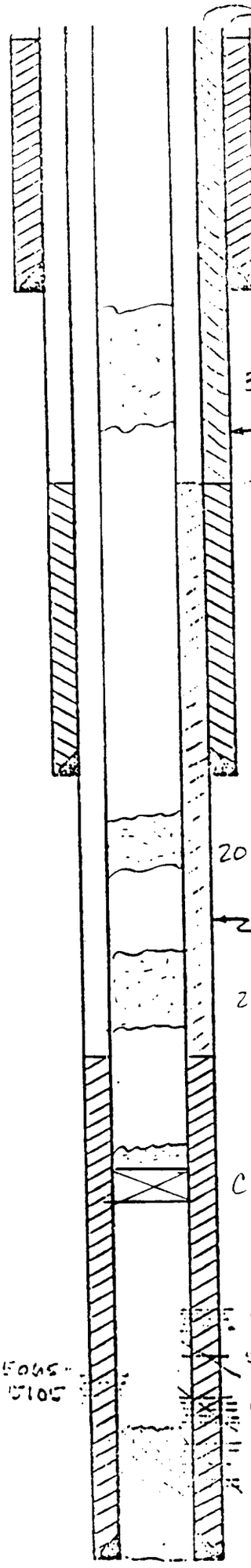
IP = 1105 MCF/DAY

Abo perfed, frac w/ 15,000 gal. K-1 + 16,000 gals. 20% HCL

IP = 12 BLO, 798 MCF/DAY

Granite Wash was tested and plugged back.

11/90 SQZ Drinkard Perfs 6216-6263 w/ 75 sxs. Dlrf 6460-6992' Abo Frac'd w/ 30000 gals SXE



(Texaco NM St #6)

Circ. Cmt. Circ. Rep.

12¼" Hole

AFE 31989 Date 11-17-86

Field/Pool Name: Paddock (Grayburg)

Lease Name/Well No.: Paddock Unit #6

Field Supt. _____ Cost $ _____

10¾", 40.5 # _____ csg.

set @ 1264' w/ 500 sxs.

30sxs @ 1200'. (Circ.)

9⅞" Hole

1220 - T.O.C. by T.S

7⅝", 26.4 # _____ csg.

set @ 2310' w/ 1500 sxs.

20 sxs @ 3300' (Circ.)

6¾" Hole

20 sxs @ 3800'

CIBP @ 4995' w/10sxs

5010-5025

5025

5040-5105

5040-5115

PBD - 5150

5120-5204 - Spot w/ 2-shots each

5½", ____ # ____ csg.

set @ 5210' w/ 440 sxs.

5210 T.D.

340 sx neat, 100 sx 2% gel.

Tbg. Size 2⅜ Grade New

No. Jnts. 171 set at 5162

Bottom Arrangement Bull Plug, 1 Jnt., Perf. Sub, SN, 170 Jnts

RDB Elev 3301', Zero Pt. 14' Above Grd. Csg "Fl

Loc: Unit J Sec 2 T-22-S R-37-

198 - ¾" rods

6/79 Set CIBP @ 4995' w/ 10 sxs

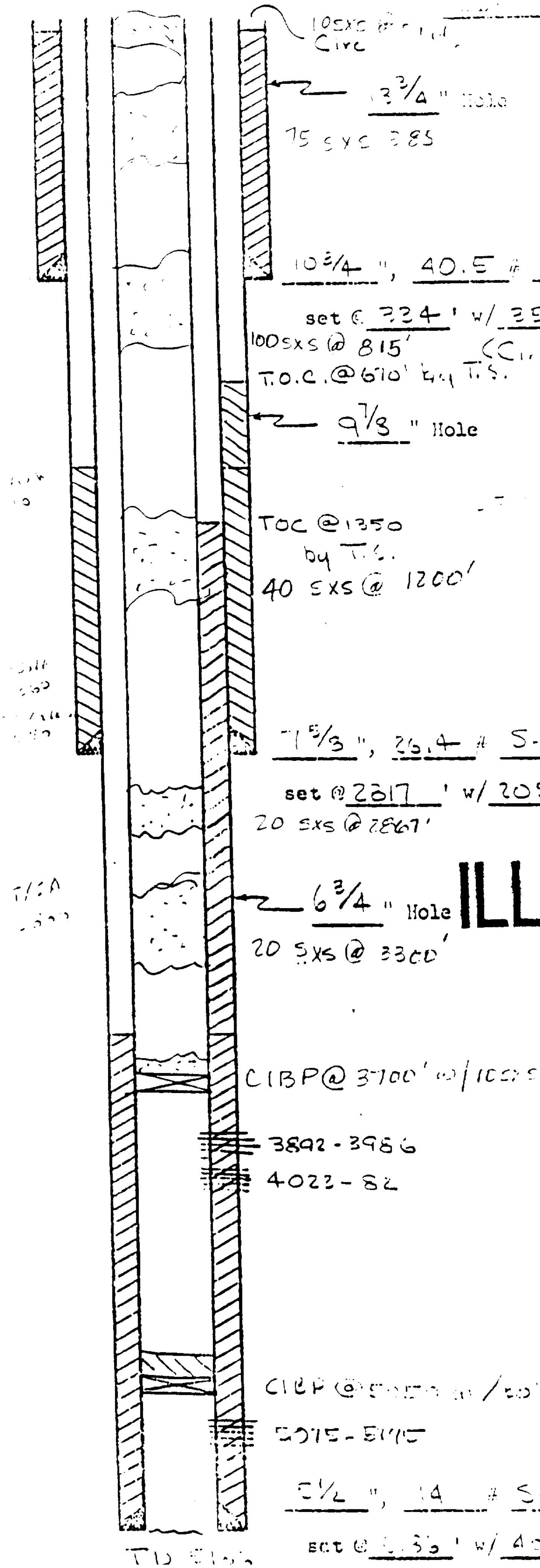
Spot 20 sx plug @ 3800',

20 sx plug @ 3300',

30 sx plug @ 1200'

Pulled 5½" csg @ 78

ILLEGIBLE



API 31969

Date 12-5-18

Field/Pool Name: Eunice So. San Andres

Lease Name/Well No.: N M S State # 2 (Paddock Unit # 44)

Field Supt. ______ Cost $ ______

Tbg. Size None Grade ______

No. Jnts. ______ set at ______

Bottom Arrangement ______

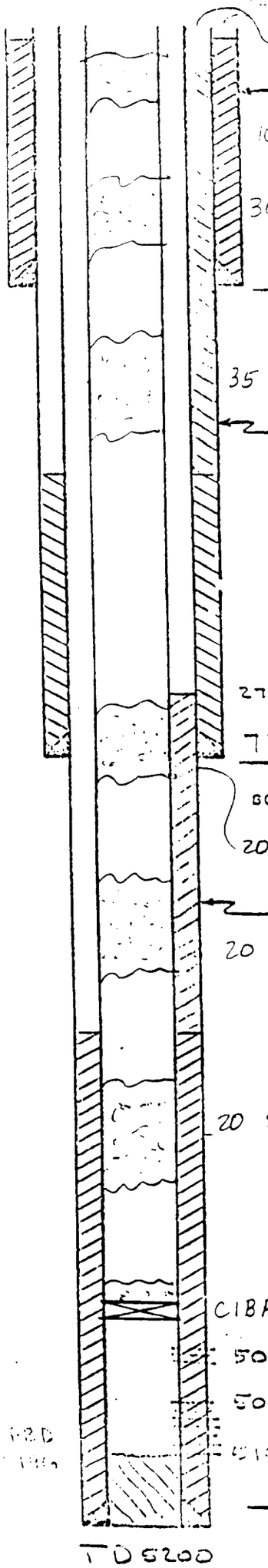
RDB Elev 3306' Zero Pt. ______' Ft. Above ______ Csg. Flg

Loc: Unit F Sec 2 T-22-S R-37-E

9/80 Set CIBP @ 3700' spot 10 sxs
Spot 20 sxs @ 3300'
Pulled 5 1/2" csg @ 765'
20 sxs @ 2867'
40 sxs @ 1200'
100 sxs @ 815'
75 sxs @ 385'
10 sxs @ surface

ILLEGIBLE

(Exxon's NM 'S' St #7)



NM 31951 Date 11-17-93

Field/Pool Name: Paddock (Seven Rivers)

Lease Name/Well No.: Paddock Unit #42

Field Supt. J C Sherrill Cost $

10 3/4", 40.5 # C-J55 csg.

set @ 311' w/ 280 sxs. (Circ.)

7 5/8", 26.4# S-80 csg.

set @ 3319' w/ 1500 sxs.

(Circ.)

5 1/2", 14 # N-80 csg.

set @ 5200' w/ 280 sxs.

(150 sx 50-50 poz + 2% gel + 2% CaCl)

Tbg. Size 2 3/8 Grade C-40

No. Jnts. 168 set at 5173 (1)

Bottom Arrangement Bull Plug, Nut, Perf. Nip, S/N, 167 Jnts, Coup. Sub 10' X 8 Rnd Thrd, Tbg Sub 8'

RDB Elev 3370' Zero Ft. 13' Above Oil Str Csg-Flg

Loc: Unit N, Sec. 2, T-22-S, R-37-E

(1) Tbg tally 8-20-57

1972 Well Service Report shows 203 rods — 5019

6/79 Set CIBP @ 4950' spot 10 sxs

Spot 20 sxs @ 3800'

20 sxs @ 3300'

20 sxs @ 2820'

35 sxs @ 1200'

Pulled 5 1/2" csg @ 690'

30 sxs @ 670'

10 sxs @ 360'

The following were mailed a copy of Form C-108 on March 17, 1995.

OFFSET OPERATORS

Exxon Corporation

Marathon
P. O. Box 552
Midland, TX 79702

John H. Hendrix Corp.
223 W. Wall, Ste. 525
Midland, TX 79701

ORYX Energy Co.
P. O. Box 2880
Dallas, TX 75221-2880

SURFACE OWNER

William Owen Stephens
P. O. Box 115
Eunice, N.M. 88231

Marsha Wilson
Operations Integrity