EXXON COMPANY, U.S.A.

POST OFFICE BOX 1600 • MIDLAND, TEXAS 79702-1600

PRODUCTION DEPARTMENT
SOUTHWESTERN DIVISION

March 27, 1992

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
P. O. Box 2088
Santa Fe, New Mexico 87504

Exxon Corporation respectfully requests administrative approval of the enclosed application to convert the subject well to fluid injection. 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 I receive it. Copies of this application are being sent by certified mail to the leasehold operator within one-half mile of proposed conversion well, and Mr. William Owen Stephens in Eunice, N.M., is being notified as the surface owner.

If you have any questions concerning this application, please call me at (915) 688-7552.

Sincerely,

Marsha Wilson

Marsha Wilson
Environmental and Regulatory Affairs

/mw
Attachments

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

Offset Operators

William Owen Stephens
Eunice, N.M.

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? [X] yes [ ] no

II. Operator: Exxon Corporation

Address: P.O. Box 1600 Midland TX 79702

Contact party: Patricia Plemons Phone: 915 688-6732

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

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

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

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

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
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: Patricia Plemons Title Sr. Project Engr

Signature: Patricia Plemons Date: 3-18-92

* 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.

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

II. WELL DATA

. 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.

. 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.

IV. 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

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

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

3890 feet to 4220 feet

(perforated or open-hole, indicate which)

Tubing size 2-7/8 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

2. Name of Field or Pool (if applicable) Blinbry - Drinkard - Tubb

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

   Overlying - Grayburg

SUPPLEMENT TO APPLICATION FOR DISPOSAL AUTHORIZATION

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 - 100 BPD
   Maximum daily rate - 250 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.

5. NA

VIII. The proposed interval for injection (3890-4220) in the New Mexico "S" State #104 is a porous and permeable zone within the San Andres dolomite and limestone. The top of the San Andres in this well was encountered at 3825 (SS -463) and the base occurs at the top of the underlying Glorieta at 4985 (-1623) for a total thickness of 1160'. 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 within the San Andres interval by impermeable limestones that occur near both the top and base of the 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. Drill out CIBP's at 3880' and 4020'.

2. Acidize perfs from 3890'-4220' with 4000 gals. 20% 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.

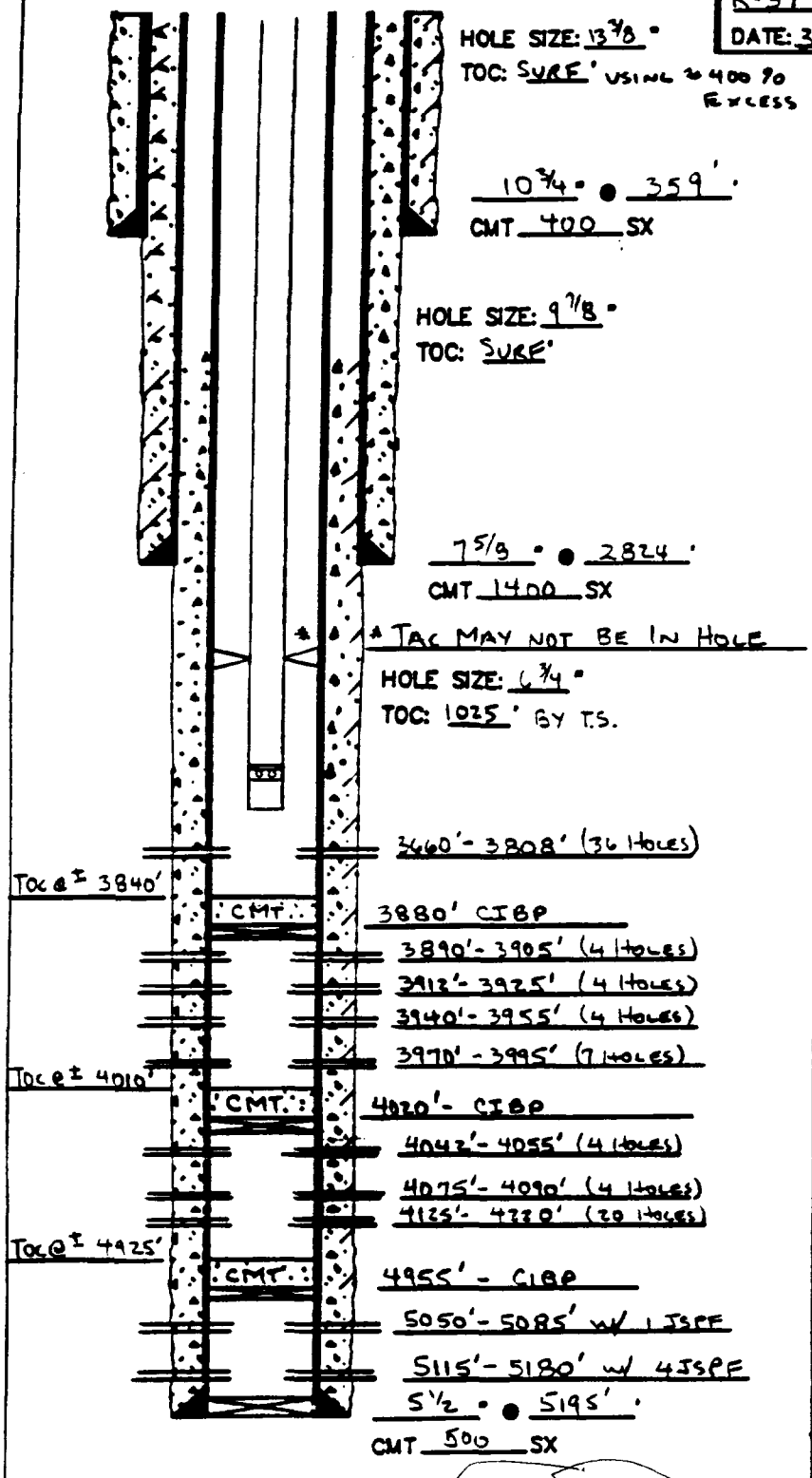
XII. There are no indications of open faults or other hydrological connections between the proposed disposal interval and the shallower fresh water zones.

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

WELLBORE SKETCH AND WELL HISTORY

ELEV.: KB 3363 '; 11.4 ' ABOVE CHF

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: 3-25-1991 BY: MAE REV.: BY:



Before conversion

TD: 5195 ' PBD: ±3840 '
ORIG PBD = 5185'

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	2824'

PRODUCTION CASING

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

TUBING

NO. JTS.	O.D.	THD.	TYPE	WT.	GDE.	SET AT
121	2 3/8"	8RD	EUE	4.7#	J-55	±3818'

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

7/73 - PLUG BACK SAN ANGELO, RE-COMPLETE IN SAN ANDRES: SET CIBP @ 4955'; CAPPED W/ 30' CMT. PERF'D W/ 1 SHOT/5 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'-4220' -	20 SHOTS
	77 SHOTS TOTAL

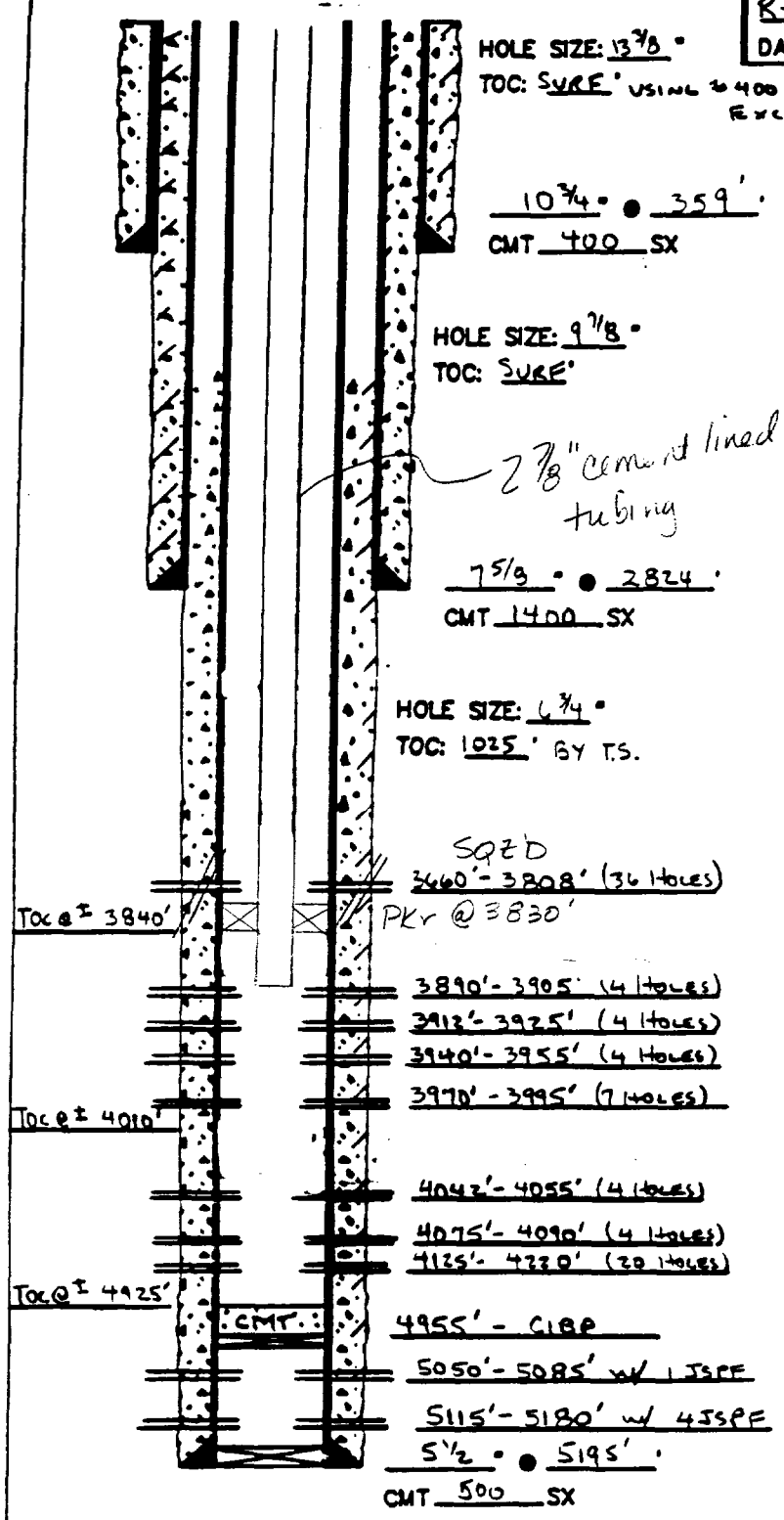
3/80 - SET CIBP @ 4020' & DUMPED 1 SX (±10') CMT ON TOP

8/80 - PLUG BACK SAN ANDRES AND RE-COMPLETE IN GRAYBURG: SET CIBP @ 3880' & CAPPED W/ 4 SX (±40') CMT. PERF'D FROM 3660'-3808' W/ 36 HOLES. RIH W/ MUD JT, PS, SN, 120 JTS TBG. ** THERE MAY BE A TAC IN STRING. **

WELLBORE SKETCH AND WELL HISTORY

ELEV.: KB 3363 '; 11.4 ' ABOVE CHF

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: 3-25-1991 BY: MAE REV.: BY:



After conversion

TD: 5195 ' PBD: ±3840 '
ORIG PBD = 5185'

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	2824'

PRODUCTION CASING

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

TUBING

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

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

7/73 - PLUG BACK SAN ANGELO, RE-COMPLETE IN SAN ANDRES; SET CIBP @ 4955'; CAPPED W/ 30' CMT. PERF'D W/ 1 SHOT/5 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'-4220'	20 SHOTS
	47 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, SN, 120 JTS TBG. ** THERE MAY BE A TAC IN STRING. **

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

Martin Water Laboratories, Inc.

708 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4621

RESULT OF WATER ANALYSES

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

LABORATORY NO. 39287
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. Coesator "L" #2).
NO. 4

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

CHEMICAL AND PHYSICAL PROPERTIES

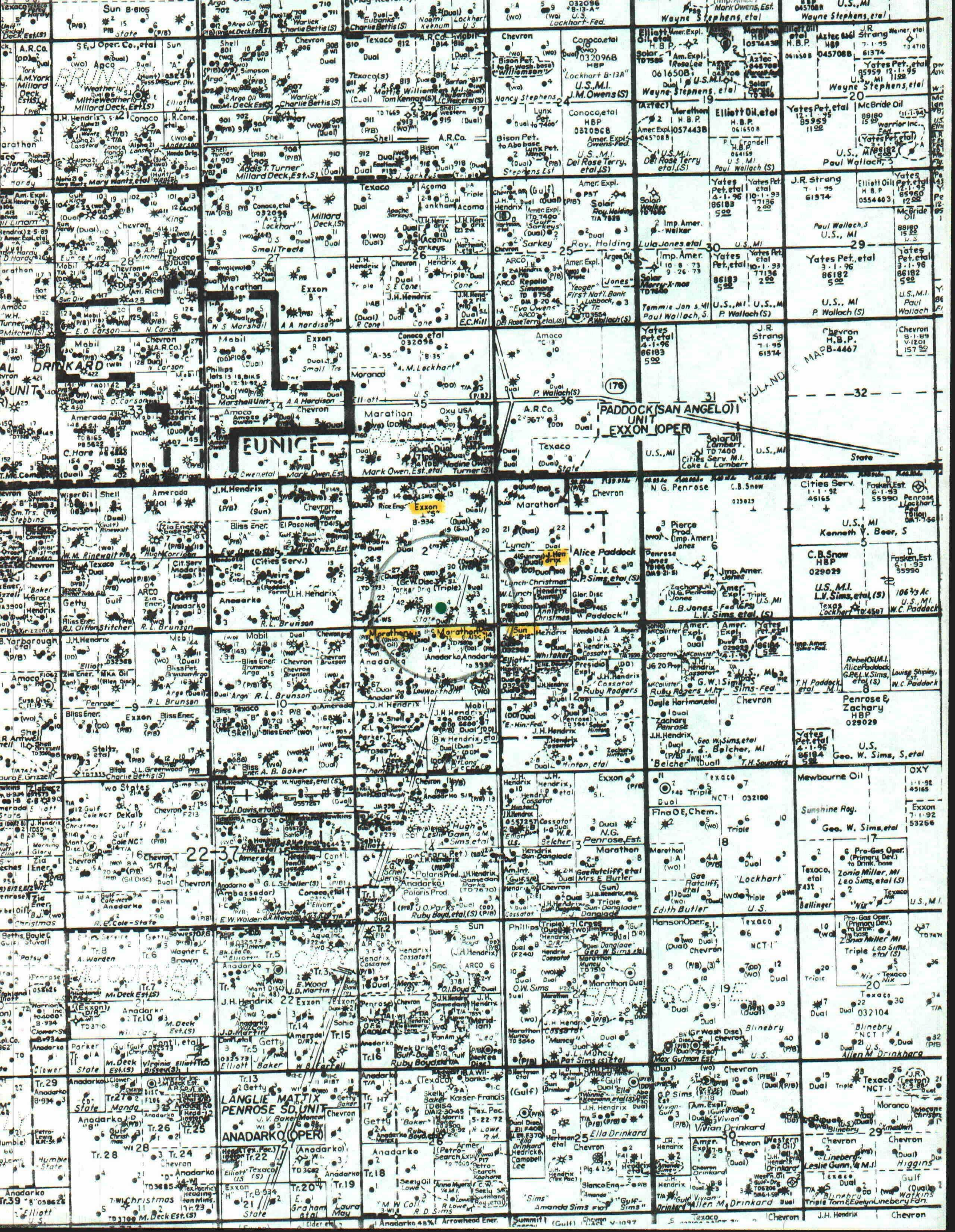
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0018	1.0015	1.0026	
pH When Sampled				
pH When Received	7.20	7.21	7.17	
Bicarbonate as HCO_3	293	281	325	
Supersaturation as $CaCO_3$				
Undersaturation as $CaCO_3$				
Total Hardness as $CaCO_3$	152	172	852	
Calcium as Ca	29	36	168	
Magnesium as 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.

Form No. 3

By _____
Waylan C. Martin, M.A.


EUNICE
DRINKARD
PADDOCK (SAN ANGELO) UNIT
EXXON (OPER)
LANGLIE MATTIX PENROSE SD. UNIT
ANADARKO (OPER)
22-37
Chevron
Texaco
Marathon
Exxon
Amoco
J.H. Hendrix
Anadarko
Alice Paddock
Wayne Stephens, etal
Yates Pet. etal
Paul Wallach, S
Mewbourne Oil
Ella Drinkard
Vivian Drinkard
Allen M. Drinkard
Ruby Rodgers
Lockhart
BRUNSON
State
U.S.
U.S., MI

03/06/92 TAP

NEW MEXICO S #104 OFFSET WELLS
WITHIN 1/2 MILE RADIUS

WELL NAME	LOCATION T/R/S	FOOTAGE	DATE DRILLED	DEPTH	COMPLETION (PERFS)	CONSTRUCTION
Walter Lynch #2	22S/37E/1	1980 FS, 660 FW	10-13-45	5220	5100-5160	13-3/8" csg @ 337 w/350 sxs 9-5/8" csg @ 2854 w/2100 sxs 7" csg @ 5170 w/350 sxs
Walter Lynch #3	22S/37E/1	660 FS, 660 FW	11-15-45	5220	5120-5180	13-3/8" csg @ 336 w/250 sxs 9-5/8" csg @ 2856 7" csg
Elliott B-12 #1	22S/37E/12	660 FN, 660 FW	4-3-85	5151	4124-4220	13-3/8" csg @ 169 w/150 sxs 7" csg @ 5151 w/450 sxs
Elliott B-12 #2	22S/37E/12	567 FN, 467 FW	12-12-75	7425	6221-7001 7326-7388	9-5/8" csg @ 1150 w/550 sxs 7" csg @ 7425 w/1250 sxs
Lou Wortham #5	22S/37E/11	990 FN, 1650 FW	12-20-70	4750	4116-4123	9-5/8" csg @ 366 w/200 sxs 7" csg @ 4750 w/450 sxs
Lou Wortham #3	22S/37E/11	660 FN, 1800 FW	11-26-61	3950	3742-3784	8-5/8" csg @ 290 w/225 sx 5-1/2" csg @ 3950 w/350 sx
Anadarko #5	22S/37E/11	660 FN, 1980 FW	7-10-46	5165	5087-5165	13-3/8" csg @ 310 w/300 sxs 8-5/8" csg @ 2798 w/3000 sx 5-1/2" csg @ 5087 w/500 sx
Lou Wortham #13	22S/37E/11	330 FN, 2080 FW	7-18-75	7390	6244-6339 7115-7211	8-5/8" csg @ 1255 w/675 sx 4-1/2" csg @ 7390 w/1300 sx
Lou Wortham #1-C	22S/37E/11	330 FN, 2310 FE	2-13-70	4700	3870-4186 4023-4186	9-5/8" csg @ 354 w/225 sxs 7" csg @ 4700 w/530 sxs
Lou Wortham #1-B	22S/37E/11	660 FN, 1980 FE	4-26-46	5150	5090-5150	13-3/8" csg @ 304 w/850 sxs 8-5/8" csg @ 2794 w/4000 sx 5-1/2" csg @ 5090 w/500 sx
Anadarko #13	22S/37E/11	330 FN, 1980 FE	12-02-78	7580	6344-6411	9-5/8" csg @ 1288 w/650 sxs 7" csg @ 7580 w/2000 sxs
Lou Wortham #3-C	22S/37E/11	660 FN, 990 FE	10-15-83	4320	3830-4320	8-5/8" csg @ 302 w/150 sx 5-1/2" csg @ 3830 w/250 sx
Lou Wortham #2-C	22S/37E/11	1878 FN, 2407 FE	5-11-70	4700	3866-4238	9-5/8" csg @ 355 w/250 sxs 7" csg @ 4700 w/675 sxs
Lou Wortham #1-A	22S/37E/11	660 FN, 660 FE	1-18-46	5147	5095-5147	13-3/8" csg @ 300 8-5/8" csg @ 2807 w/250 sx 5-1/2" csg @ 5095 w/300 sx
Lou Wortham #14	22S/37E/11	520 FN, 330 FE	4-22-76	7540	7289-7515	9-5/8" csg @ 1265 w/650 sxs 7" csg @ 7540 w/2680 sxs
Lou Wortham #19	22S/37E/11	680 FN, 880 FW	2-04-86	7400	6549-7024	9-5/8" csg @ 1200 w/700 sxs 7" csg @ 7400 w/1995 sxs

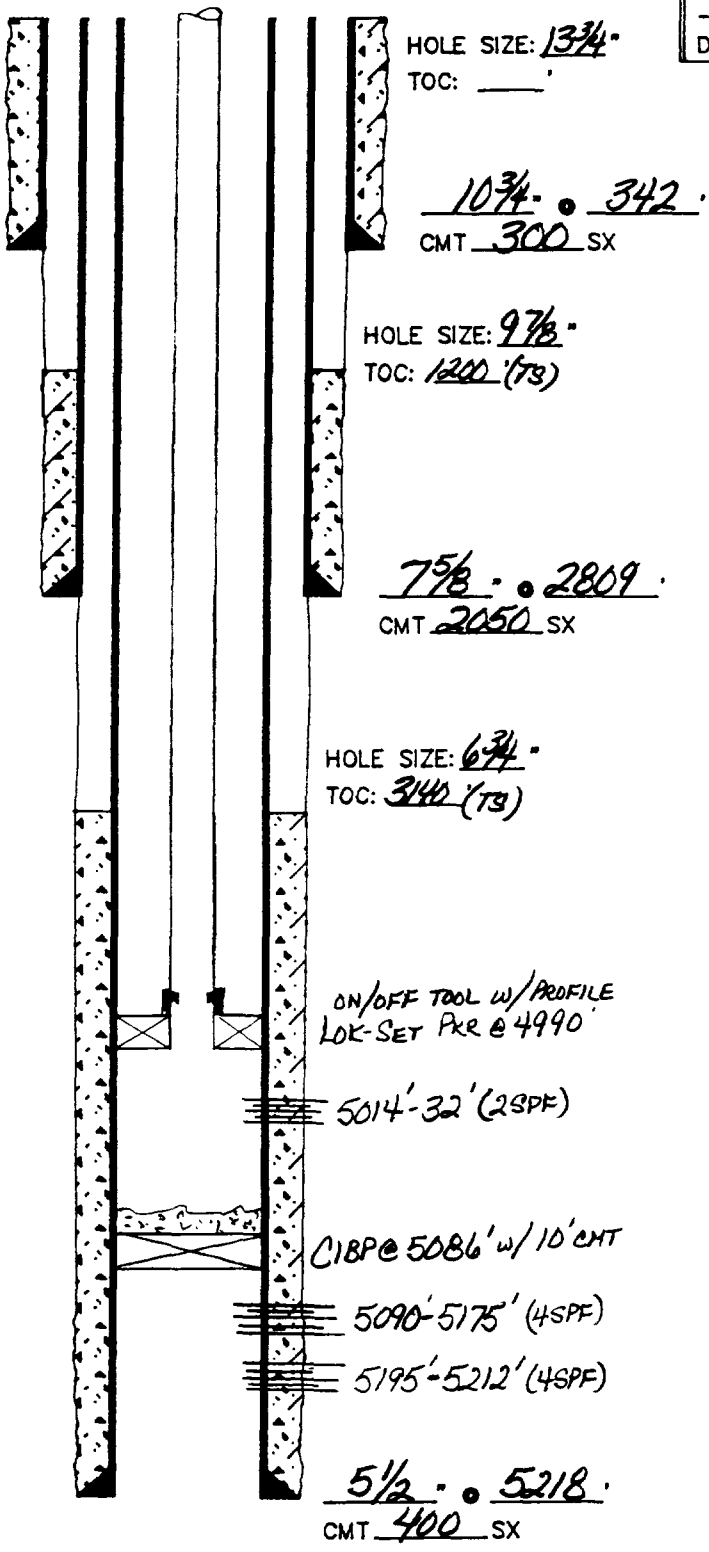
NOTE: SEE ATTACHED WELLBORE SKETCHES FOR WELLS LOCATED IN SECTION 2

WELLBORE 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'

AFTER WORKOVER SKETCH

CASING RECORD

SURFACE CASING

O.D.	WT/FT	GRADE	SET AT
10¾	40.5	H-40	342
7⅝	26.4	J-55	0-2430
~~7⅝~~	~~24~~	~~H-40~~	~~2430-2809~~

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 D&C 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

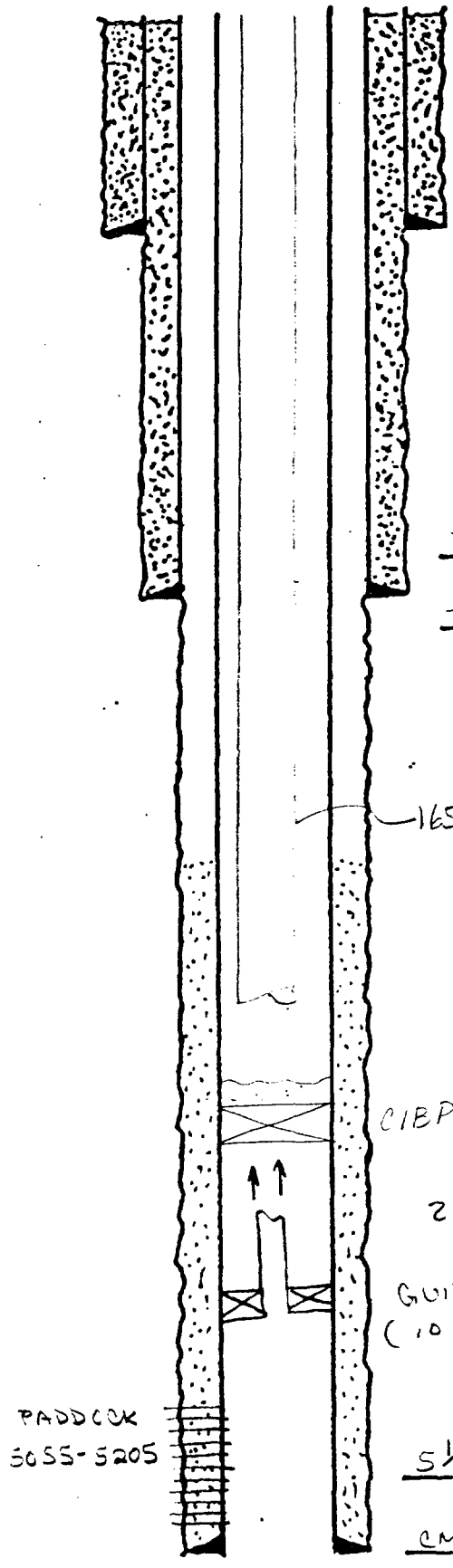
DATE : 3/5/86

WELLBORE SKETCH

LEASE & WELL : PADDOCK UNIT #64

FIELD: PADDOCK

FIELD SUPT: EB TAYLOR



TUBING: SIZE _____ GRADE _____
JTS _____ SET _____

BOTTOM HOLE ARRANGEME.

ELEV DF RKB 3370, 13' ABOVE GL

WELL HISTORY

9/46 PERF 5070 - 5205
AC w/ 4000 GAL 15% HCL

9/59 AC w/ 10,000 GAL 15% HCL

11/68 PERF 5055 - 5070
AC w/ 3000 GAL 15% HCL

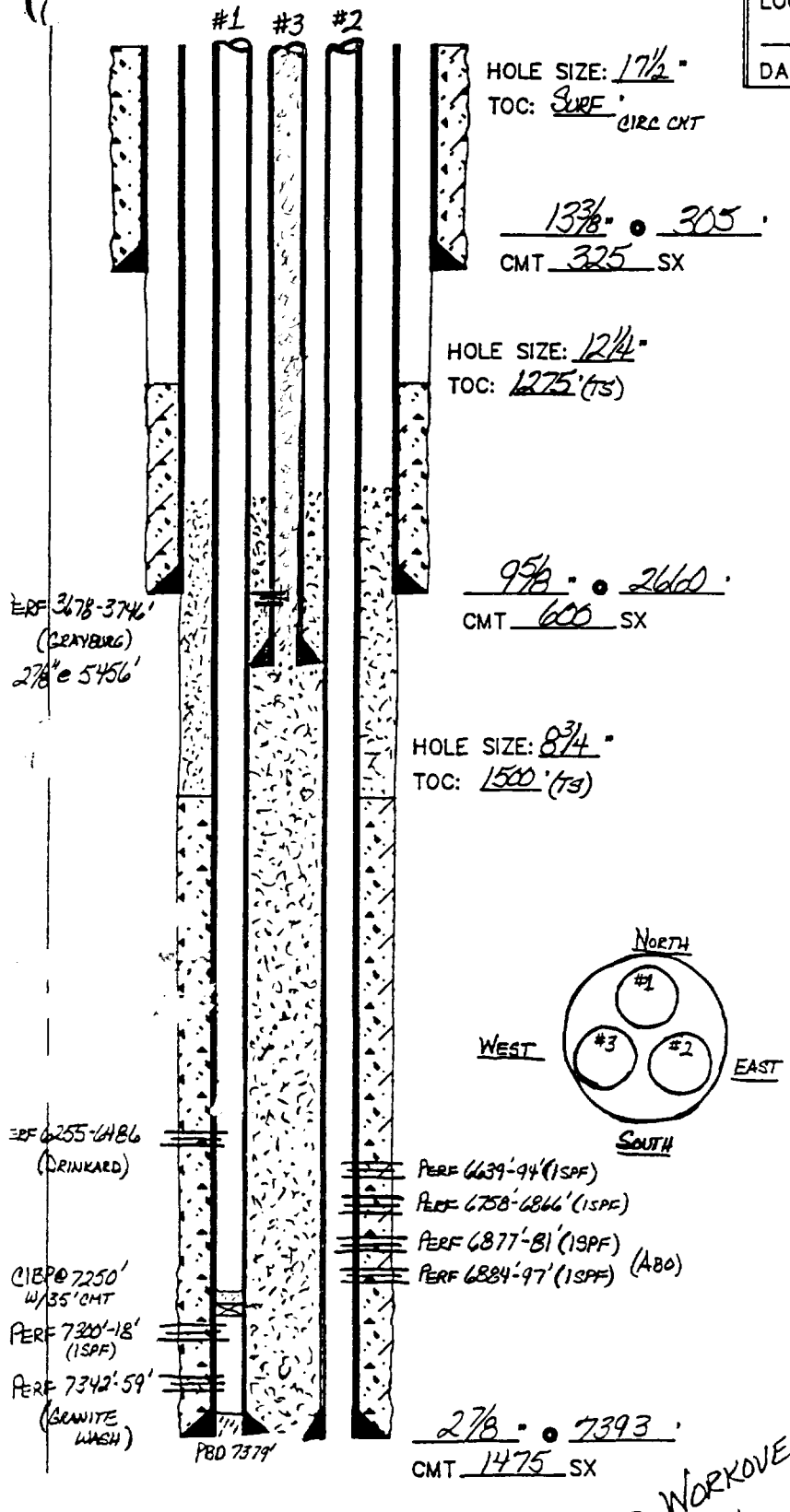
3/86 Set CIBP @ 4985' cap
w/ 35' cmt
PIH w/ 165 jts 2 3/8" tbg

WELLBORE SKETCH AND WELL HISTORY

ELEV.: KB 3368', 11' ABOVE GL

LEASE & WELL NAME: NEW MEXICO '8' 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'
9⅝	32.3	H-40	2660'

PRODUCTION CASING

	O.D.	WT/FT	GRADE	SET AT
#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 AT
#3	114	1½	IORD		1.87		3817'

WELL HISTORY:

7/63 D&C PERF GRAYBURG IN STRING #3 3678'-3746' PERF ABO IN STRING #2 6877'-81', 6884'-97', PERF GRANITE WASH 7306-18' & 7341-59'.

2/76 SET CIBP IN STRING #1 @ 7250' CAPPED W/35' CMT. PERF STRING #2 6758'-6866', PERF STRING #1 FROM 6255-6486' (53 SHOTS) PERF STRING #3 6639'-94'.

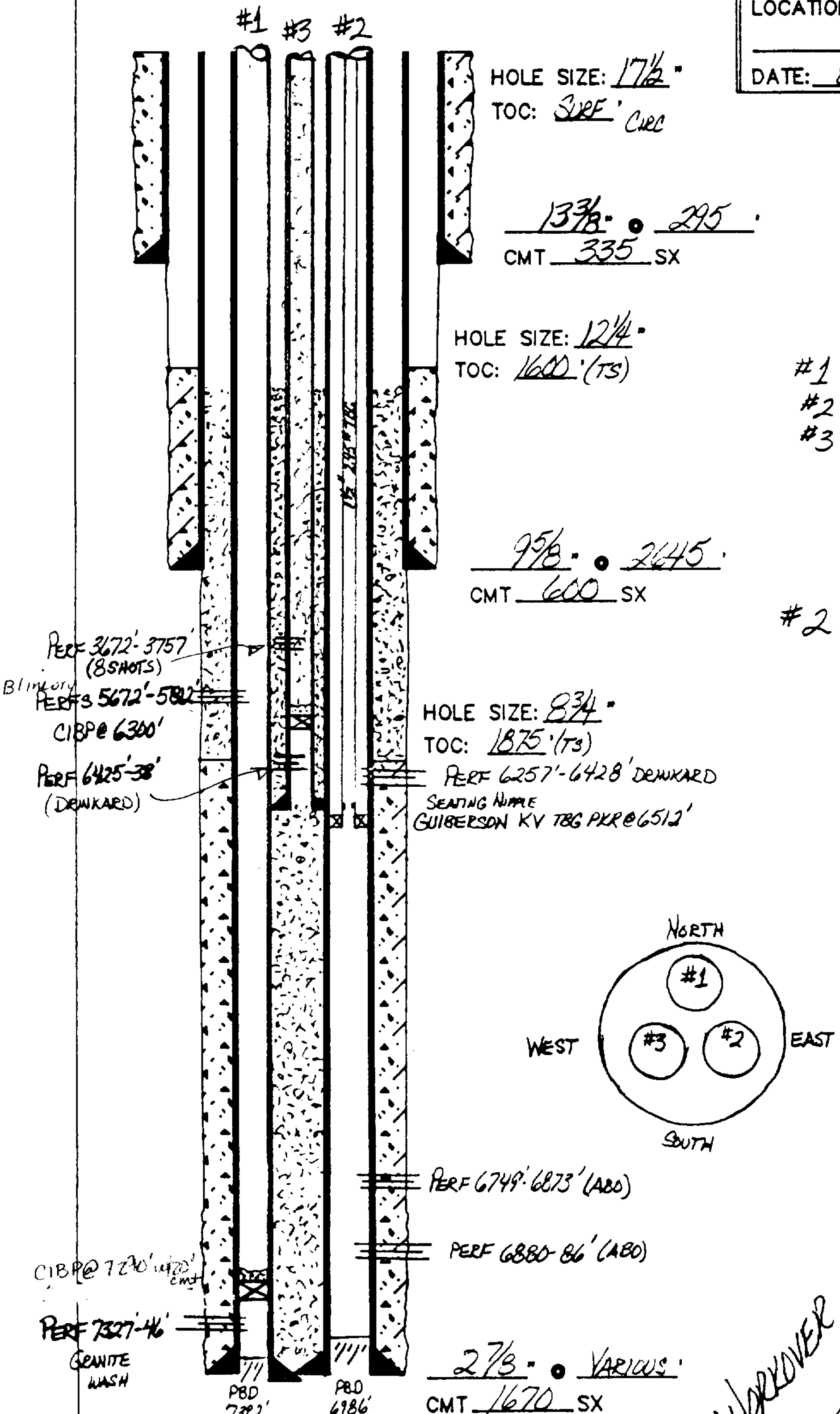
12/91 String #33 Pumped 26 bbls cement - circ @ surface P&A'd

WEL__ORE SKETCH AND WEL_ HISTORY

ELEV.: KB 3367', 11' ABOVE GL

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

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



AFTER WORKOVER SKETCH

TD: 7411' PBD: ______'

CASING RECORD

SURFACE CASING

O.D.	WT/FT	GRADE	SET AT
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.	SET
#2	203	1½	10RD		2.45	N-80	65[illegible]

WELL HISTORY:

5/63 PERF DRINKARD 6425'-6438', PERF ABO 6870'-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 w/ 2000 GAL. SQZ & REPERF 6880-86. ACIDIZE w/3500 GAL. ACIDIZE DRINKARD w/2250 GAL. FRAC w/ 10000# [illegible] SET CIBP @ 6300'. PERF GRAYBURG 3672'-3757' (8 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'-64'. SAND FRAC. RAN TBG & PKR.

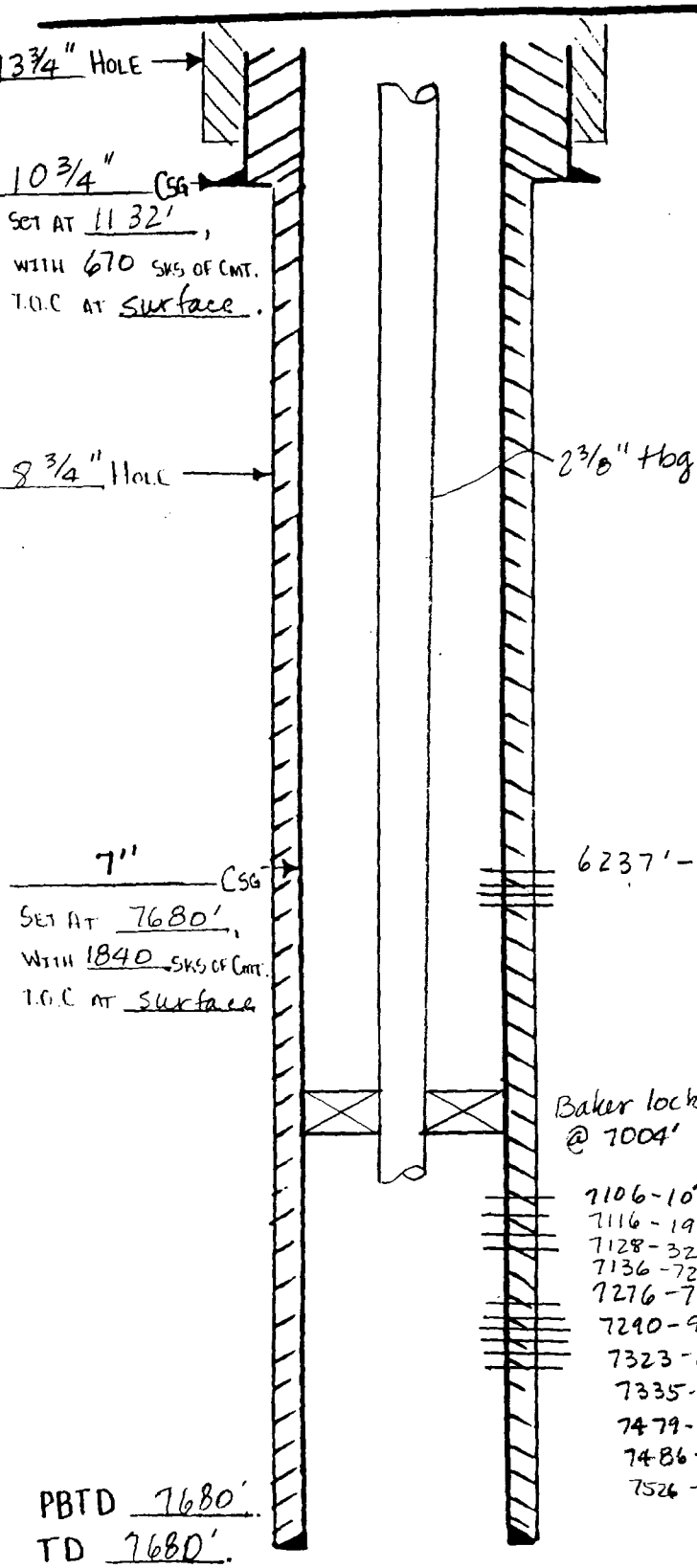
12/91 String #3 P & A'd
cmt to surface
String #1 Set CIBP @ 7290 w/20' cmt
Perf 5672-5812' (Blinebry)
Frac w/25 bbl 15% HCl w/[illegible]
[illegible] 5981'

STRING #3 HAS BEEN SI SINCE 4/68

#1 ROD STRING: 2"×1¼"×12'×16' RHTC, 210-¾"×25' RODS, 78-⅞" 25' RODS, 22' OF ⅞" SUBS, 16'×1¼" POLISH ROD
1-2'×¾" SUB ON TOP OF PUMP

WELLBORE SKETCH

Completion Date: 8-76	Field: B-D-T	Lease & Well #: NM S #33
Elevation	Nature of Work	
Zero	380' FSL 860' FEL Sec 2, T-22S R-37E	
Perforations Before Workover		Reservoir Before Workover
Perforations After Workover		Reservoir After Workover



History

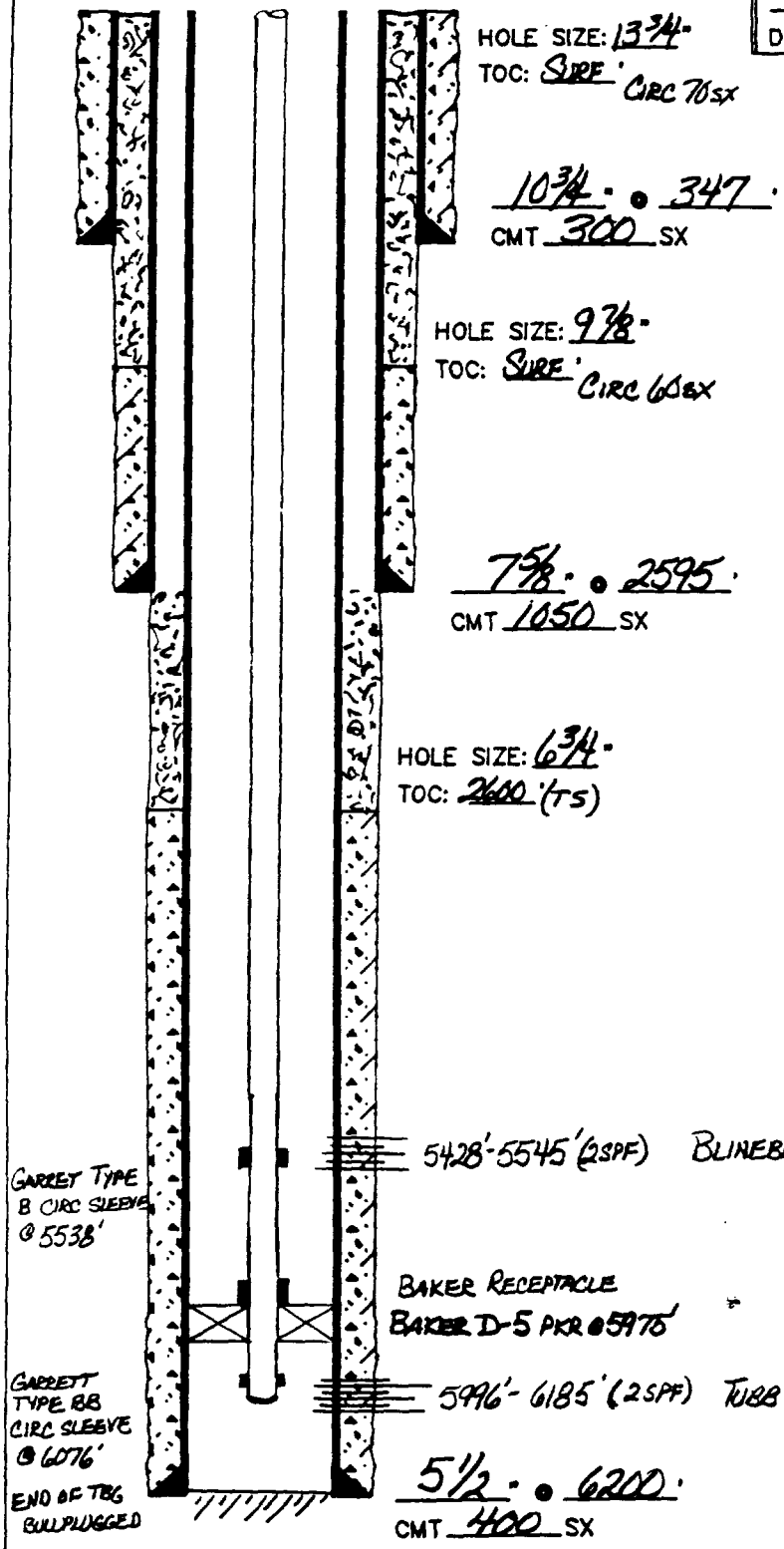
8-76 D&C completed in Granite Wash
Perf 7276-7530 Acdz w/5000 gals 15% HCL w/3 gals Corexit 7652
Perf 7106-7172' Acdz w/6000 gals 15% HCL
Perf 6237-6276' Drinkard
Acid frac w/7500 gals w/1 pad & 8500 gal gelled 20% HCl

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: RSBAKE 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	0-5528
5 1/2	15.5	J-55	5528-6200

TUBING

NO. JTS.	O.D.	THD.	TYPE	WT.	GDE.	SET AT
196	2 3/8	8RD	EUE	4.7	J-55	6110'

WELL HISTORY:

4/55 DEC PERF 5996'-6011', 6023'-48', 6060'-118', 6128'-46', 6154'-85' (2SPF). ACIDIZE W/ 3000 GAL & 9000 GAL 15%.

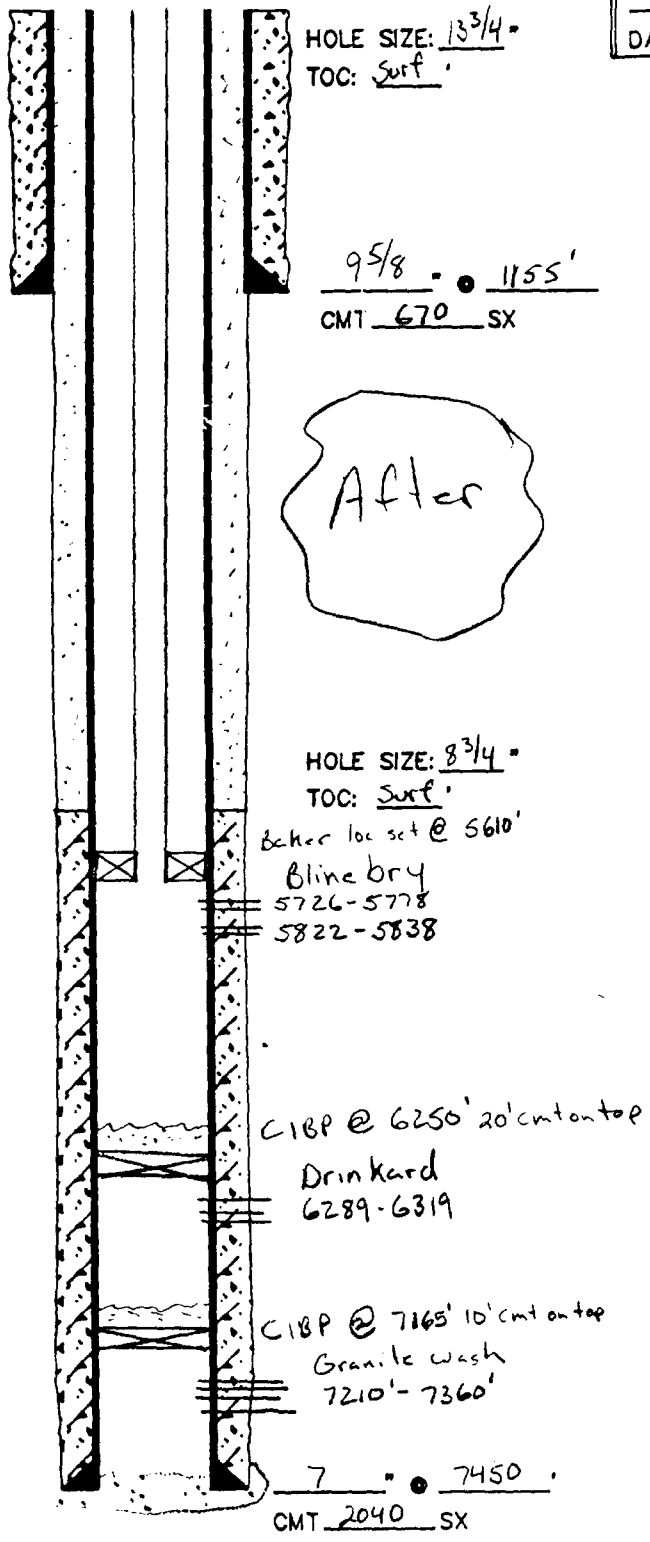
PERF BLINEBRY 5428'-70', 5490'-5508', 5515'-45' (2SPF). ACIDIZE W/500 GALS MUD ACID AND 3000 GALS 15%.

WELLBORE SKETCH AND WELL HISTORY

ELEV.: KB 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: GWM REV.: BY:



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'

TUBING

NO. JTS.	O.D.	THD.	TYPE	WT.	GDE.	SET AT
184	2 3/8	8rd	EUE	4.7		5700

WELL HISTORY:

12/76 D&C 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 sand
Perf Drinkard 6289 - 6319 Acid frac
w/25000 gal K-1 pad & 20% HCl

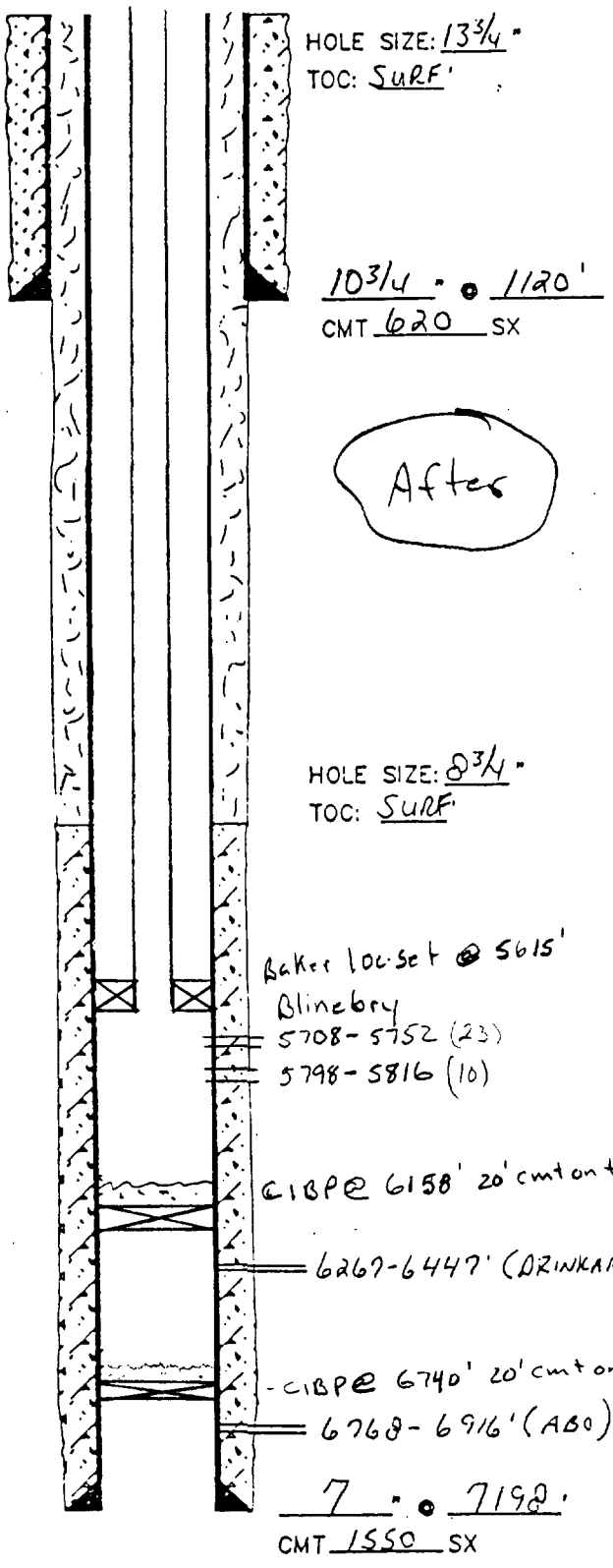
8/90 Set CIBP @ 7165 w/ 20' cmt
Set CIBP @ 6250 w/20' cmt
Perf Blinebry 5726 - 5838'
Frac 738 bbls slurry, 55000 # 20/40 sd.

WELLBORE SKETCH AND WELL HISTORY

KB 3383', 15.5' ABOVE GL

LEASE & WELL NAME: N.M. "S" 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
10 3/4	40.5/41.85	K-55/A	1120'

PRODUCTION CASING

7	23/26	N-80	7198'

TUBING

NO. JTS.	O.D.	THD.	TYPE	W.T.	GDE.	SET AT
184	2 3/8	8rd	EUE	4.7		5700

WELL HISTORY:

5/76 DEC; PERF 6768-916' (47) TRT W/ 12000 GAL K-1 + 13000 GAL 20% HCL
IP 221 BO 481 MCF 218W
PERF 6267-447' (51) TRT W/ 17500 GAL K-1 + 19,500 GAL 20% HCL.
IP 2400 MCF

7/90 Set CIBP @ 6740' & capped w/20' cmt
Set CIBP @ 6158' & capped w/20' cmt
Perf 5708-5752 (2 spf), 5798-5816
PPI Acid job w/ 3766l acid
Frac 28735 gals Fluid, 60351# 20/40 sand

Date: 4/19/90

Lease, Well: NEW MEXICO "S" STATE #34

Elev. 3351', _____

above _____

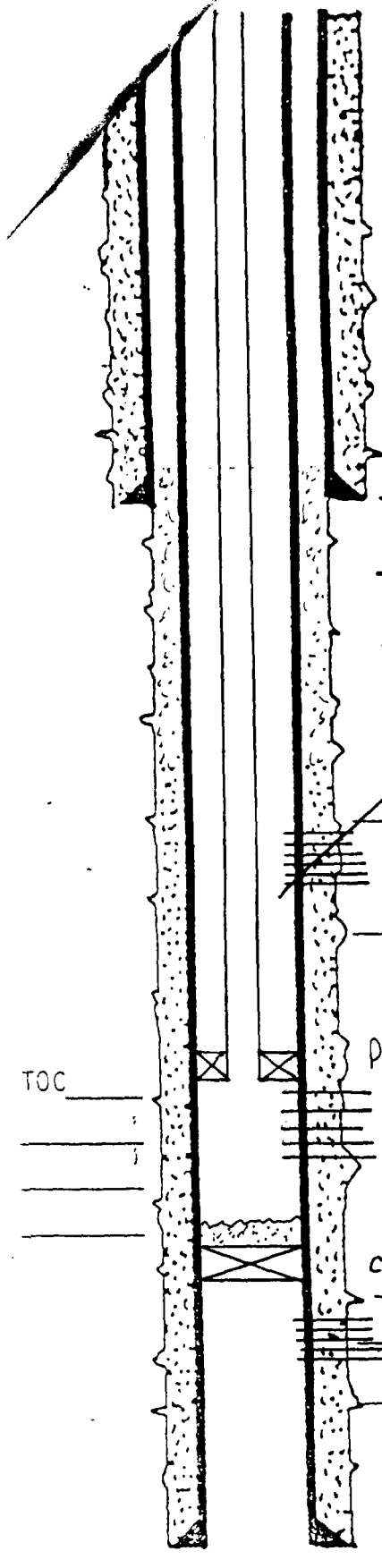
H2S 0 PPM

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 7½% 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

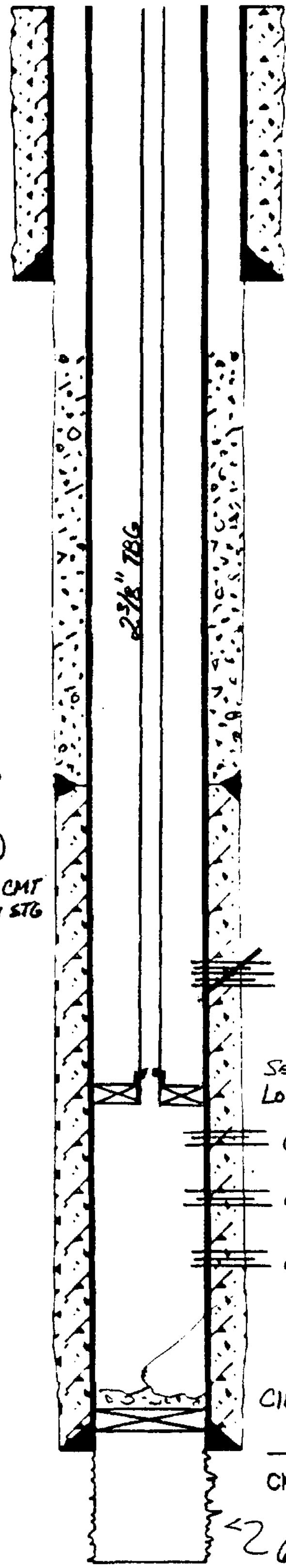
Granite Wash was tested and plugged back.

11/90 SQZ Drinkard Perfs 6216-6263' w/ 75 sxs, Perf 6960-6992' Abo Acdz w/30000 gals SXE

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:



HOLE SIZE: 13¾"
TOC: SURF' CIRC 100sx

10¾" @ 1144
CMT 670 SX

2⅜" TBG

HOLE SIZE: 8¾"
TOC: 1230' (TS)

DV TOOL @ 4084' (1400 sx)
CIRC 10 BBL CMT OUT DV FROM STG 1 JOB.

PERFS 6270'-6320' (SQZ'D) (DRINKARD)

SEATING NIPPLE
LOK-SET PKR @ 6500' w/ON-OFF TOOL

6538'-6715' (18 HOLES) (ABO)

6784'-6885' (18 HOLES) (ABO)

6945'-7108' (18 HOLES) (ABO)

CIBP @ 7140' w/10+ CMT.

7" @ 7180'
CMT 700 SX

6¼" HOLE (GRANITE WASH)

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:

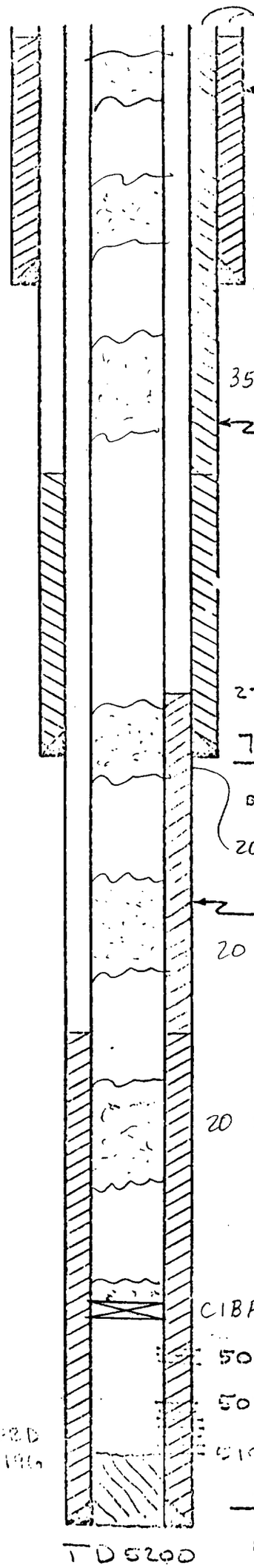
10/76 D&C AS DUAL COMPLETION.
ACIDIZE GRANITE WASH w/7000 GALS
GELLED 15% HCL, PERF DRINKARD
6270-79, 6291-96, 6305-08, 6312'-20'
(1SPF) ACIDIZE w/100 GAL 20% HCL
FRAC w/7500 GAL K-1 PAD, 8500 GAL 20%
HCL. RUN DUAL PKR. PUT GRANITE
WASH ON PUMP.

7/91 Set CIBP @ 7140' & cap w/10' cmt
SQZ 6270-6320', Perf 6538-7108' Abo
Acdz w 59900 gal - SXE

AFTER WORKOVER SKETCH

PLUG & ABANDON

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



AFE 31931 Date 11-17-78

Field/Pool Name: Paddock (Southeast)

Lease Name/Well No.: Paddock Unit #12

Field Supt. J C Sherrill Cost $

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

set @ 311' w/ 230 sxs. (Circ.)

9 7/8" Hole

35 sxs @ 1200'

Tbg. Size 2 3/8 Grade C-40

No. Jnts. 168 set at 5178 ①

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

RDB Elev 3370' Zero Pt. 13' Above Oil Srv Csg-Flg

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

① Tbg Tally 8-20-57

1972 Well Service Report shows 203 rods — 5019

2700 - TOC by T.S

7 5/8", 26.4# S-30 csg.

set @ 2819' w/ 1500 sxs. (Circ.)

20 sxs @ 2820'

6 3/4" Hole

20 sxs @ 3300'

20 sxs @ 3800'

CIBP @ 4950' w/ 10 sxs

5050 - 5060

5072

5196

PBD 5196

5 1/2", 14 # N 40 csg.

set @ 5200' w/ 280 sxs.

(100 sx, 2% gel + 180 sx, neat)

TD 5200

6/79 Set CIBP @ 4950' spot 10 sxs

Spot 20 sxs @ 3800'

20 sxs @ 3300'

20 sxs @ 2820'

35 sxs @ 1200'

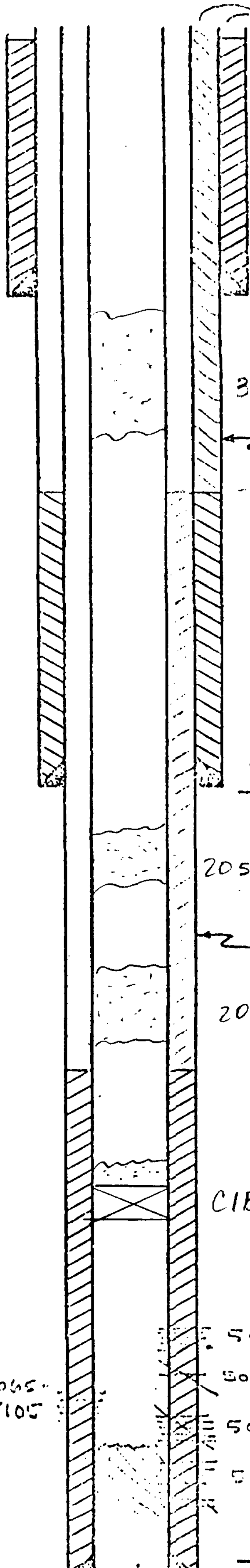
Pulled 5 1/2" csg at 690'

30 sxs @ 690'

10 sxs @ 360'

PLUG & ABANDON

[illegible] District
[illegible] (Exxon's NM'S' St #6)



Circ. by Drlg. Rep.

12¼ " Hole

10¾ ", 40.5 # ______ csg.

set @ 364 ' w/ 300 sxs. (Circ.)

30 sxs @ 1200'.

9⅞ " Hole

1220 – T.O.C. by T.S.

7⅝ ", 26.4 # S-80 csg.

set @ 2810 ' w/ 1500 sxs. (Circ.)

20 sxs @ 3300'

6¾ " Hole

20 sxs @ 3800'

CIBP @ 4945' w/ 10 sxs

5010-5025

5025

5065-5105

5090-5115 } Sqzd. w/ 50 sx

PBD 5150

5130-5204 – Sqzd. w/ 2-50 sx stgs.

5½ ", ______ # ______ csg.

set @ 5207 ' w/ 410 sxs.

340 sx neat, 100 sx 2% gel.

5210 T.D.

AFE 31929 Date 11-17-78

Field/Pool Name: Paddock (San Andres)

Lease Name/Well No.: Paddock Unit # 3[illegible]

Field Supt. ______ Cost $ ______

Tbg. Size 2⅜ Grade J55

No. Jnts. 171 set at 5102

Bottom Arrangement Bull Plug, 1 Jnt., Perf. Nip., S/N, 170 Jnts.

RDB Elev 3367 ', Zero Pt. 14 ' Ft. Above Oil Str. Csg. "Flg

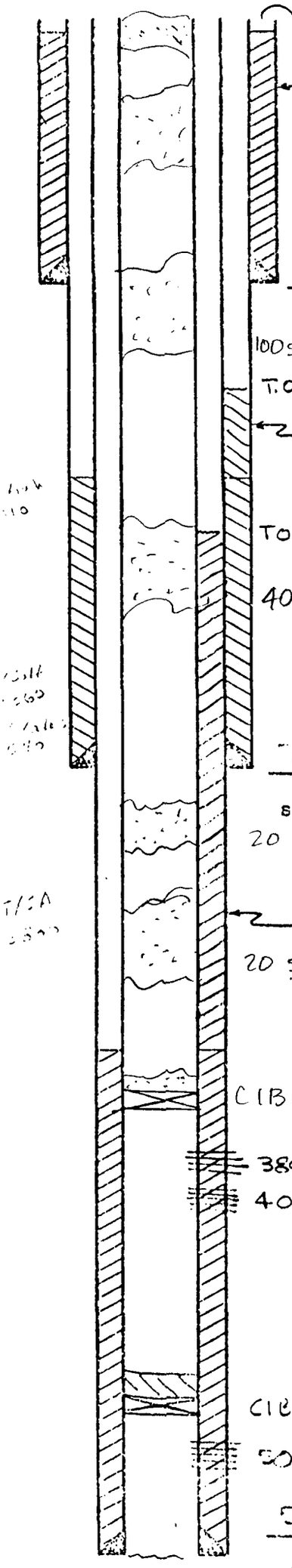
Loc: Unit J Sec 2 T-22-S R-37-E

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 @ 780'

PLUG & ABANDON

EXXON COMPANY, U.S.A. - Midland District



AFE 31969 Date 12-5-78

Field/Pool Name: Eunice So. San Andres

Lease Name/Well No.: C Paddock Unit #442 NM State #2

Field Supt. _____ Cost $ _____

Tbg. None
Size ____ Grade _____
No. Jnts. _____ set at _____

Bottom Arrangement _____

RDB Elev 3336' Zero Pt. ____' Ft. Above _____ Csg. "Flg

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

9/80 Set CIBP @ 3700' spot 10 sxs
Spot 20 sxs @ 3300'
Pulld 5½" csg @ 765'
20 sxs @ 2867'
40 sxs @ 1200'
100 sxs @ 815'
75 sxs @ 385'
10 sxs @ surface

Copies of NMOCD Form C-108 were sent to the following by *Certified Mail* on 3-27-92

OFFSET OPERATORS

EXXON CORPORATION
C/O SHARON HALL
MIDLAND TX 79702

MARATHON
PO BOX 552
MIDLAND TX 79702

JOHN H HENDRIX CORP
223 W WALL STE 525
MIDLAND TX 79701

ORYX ENERGY CO
PO BOX 1861
MIDLAND TX 79702-1861

SURFACE OWNER

WILLIAM OWEN STEPHENS
PO BOX 115
EUNICE NM 88231

Marsha Wilson
MARSHA WILSON
ENVIRONMENTAL & REGULATORY AFFAIRS

LARGE FORMAT EXHIBIT HAS BEEN REMOVED AND IS LOCATED IN THE NEXT FILE

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

OIL CONSERVATION DIVISION
RECEIVED
'92 APR 3 AM 9 10

3-31-92

BRUCE KING
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RE: Proposed:
MC _____
DHC _____
NSL _____
NSP _____
SWD X SWD-473
WFX _____
PMX _____

Gentlemen:

I have examined the application for the:

Exxon Corp. New Mexico S State #104-O 2-22-37
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

OK

Yours very truly,

Jerry Sexton
Supervisor, District 1

/ed