



**Fina Oil and Chemical
Company**
6 Desta Drive, Suite 4400
Midland, Texas 79705
Post Office Box 2990
Midland, Texas 79702
Office (915) 687-0575

October 27, 1987

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P. O. Box 1980
Hobbs, New Mexico 88240

Attn: David Catanach

Re: Horton Federal No. 38
Injection Well to Replace Well No. 11

Dear Mr. Catanach:

The attached well data has been gathered as per our phone conversation. As I stated, the two Mobil operated wells to the north of Fina's acreage in the area of review would not be included in this information. All of Fina's operated wells have been included for your evaluation in the area of review.

I hope this information satisfies your requirements but should it not, please do not hesitate to contact me at the above address or number.

Yours truly,

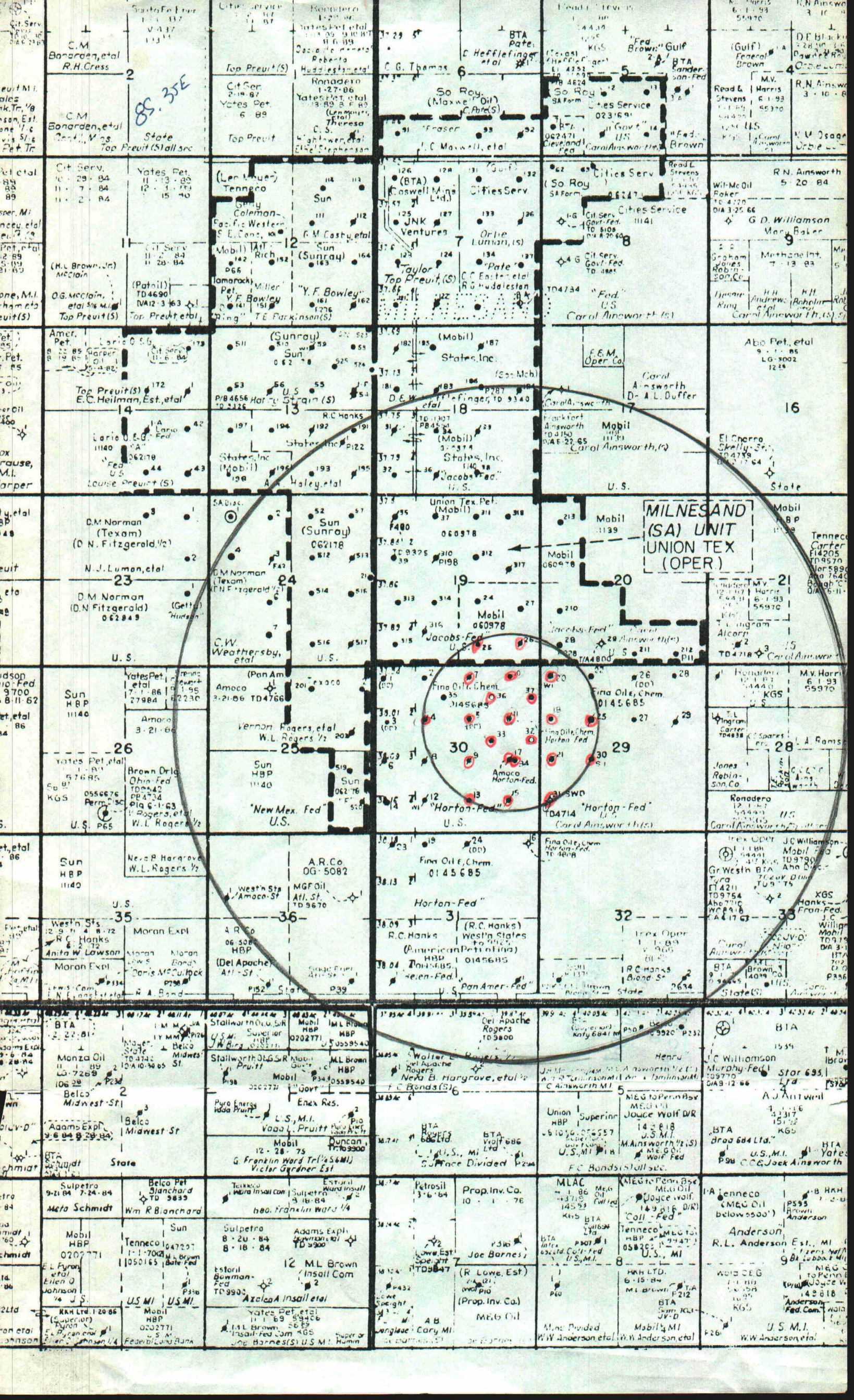
A handwritten signature in cursive script, appearing to read "Louis Torrans".

Louis Torrans

LT:dlb

Attachments

cc: Ron Smelley
Charles Tomblin
Phil Miller
File



85.35E

MILNESAND (SA) UNIT UNION TEX (OPER)

Map grid containing lease block numbers (e.g., 2, 6, 12, 18, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100) and associated lease information.

C.M. Bonarden, et al R.H. Cress

Top Previt (S)

C.G. Thomas

C. Hefflefinger et al

"Fed. Brown" Gulf

(Gulf) Federal Brown

Cit Serv 10-29-84 11-7-84 11-2-84

(Len. Vauze) Tenneco Sun

So Roy (Maxwe Oil) C. (S)

Cities Serv (So Roy) SA Form

Cities Serv (So Roy) SA Form

Read L. Stevens Harris 6-1-93 55970

(H.L. Brown, Jr) McClain

G.M. Cashy, et al (Sunray) 164

JNK Ventures

Orlie Lumian, (S)

Cities Service 11141

Wil-Me Oil Paker 10-4-70 DIA 3-25-66

O.G. McClain, et al 5/8 M/G Top Previt (S)

Y.F. Bowley "Y.F. Bowley" 162

"Pate" C.C. East et al

"Fed." U.S. Carol Ainsworth (S)

"Fed." U.S. Carol Ainsworth (S)

M.V. Harris 6-1-93 55970

Amer. Pet. Lario U.S.G. 179

(Sunray) Sun 525 524

States, Inc. (So-Mob)

F.E.M. Oper Co.

Carol Ainsworth D-A.L. Duffer

Abn Pet, et al 9-1-85 LG-3002 1219

Top Previt (S) 172 E.C. Heilmann, Est, et al

States, Inc (Mobil) 198

States, Inc. 198

States, Inc. 198

Mobil 1139

El Chorro Skelly, et al 10-4-78 DIA 3-27-64

Lario U.S.G. 11140

States, Inc (Mobil) 198

States, Inc. 198

States, Inc. 198

Mobil 1139

El Chorro Skelly, et al 10-4-78 DIA 3-27-64

D.M. Norman (Texom) (D.N. Fitzgerald, 1/2)

D.M. Norman (Texom) (D.N. Fitzgerald, 1/2)

Union Tex. Pet. (Mobil) 311

Mobil 1139

Mobil 1139

Tenneco Carter E14205 TD9570

D.M. Norman (D.N. Fitzgerald) 062178

D.M. Norman (Texom) (D.N. Fitzgerald, 1/2)

Union Tex. Pet. (Mobil) 311

Mobil 1139

Mobil 1139

Tenneco Carter E14205 TD9570

U.S.

U.S.

U.S.

U.S.

U.S.

U.S.

Sun HBP 11140

(Pan Am) Amoco 2-21-66 TD4766

Finco Oil, Chem. 0145685

Finco Oil, Chem. 0145685

Finco Oil, Chem. 0145685

M.V. Harris 6-1-93 55970

Yates Pet, et al 57685

Vernon Rogers, et al W.L. Rogers 1/2 201

Finco Oil, Chem. 0145685

Finco Oil, Chem. 0145685

Finco Oil, Chem. 0145685

M.V. Harris 6-1-93 55970

Brown Drilg Ohio-Fed TD2542 PB4734 P14 G-1-63 W.L. Rogers, et al

"New Mex. Fed" U.S.

Finco Oil, Chem. 0145685

Finco Oil, Chem. 0145685

Finco Oil, Chem. 0145685

M.V. Harris 6-1-93 55970

Sun HBP 11140

Westh Sts Amoco-St MGF Oil Att. St. TD9670

Finco Oil, Chem. 0145685

Finco Oil, Chem. 0145685

Finco Oil, Chem. 0145685

M.V. Harris 6-1-93 55970

Westh Sts 12-9-74 R.C. Hanks Anita W. Lawson Moran Expl

A.R.Co 06-508 HBP (Del Apache) Att. St.

(R.C. Hanks) Westing States to 9125 (American Petroleum) HBP 0145685

Finco Oil, Chem. 0145685

Finco Oil, Chem. 0145685

M.V. Harris 6-1-93 55970

Monza Oil 11-1-85 106-28 Belco 2 Midwest-St

Stallworth Oil & Gas Pruit Mobil 0202771

Finco Oil, Chem. 0145685

Finco Oil, Chem. 0145685

Finco Oil, Chem. 0145685

M.V. Harris 6-1-93 55970

Adams Expl 9-6-84 9-29-84 Belco Midwest-St

Puro Energy Idda Pruit Enex Res. 2

Finco Oil, Chem. 0145685

Finco Oil, Chem. 0145685

Finco Oil, Chem. 0145685

M.V. Harris 6-1-93 55970

BTA 9-21-84 7-24-84 Meta Schmidt Wm R. Bianchard

Tenneco 10-4-70 1050165 Tenneco 10-4-70 1050165

Finco Oil, Chem. 0145685

Finco Oil, Chem. 0145685

Finco Oil, Chem. 0145685

M.V. Harris 6-1-93 55970

Mobil HBP 0202771

Adams Expl 8-20-84 8-18-84 12 M.L. Brown (Insall Com) 2

Finco Oil, Chem. 0145685

Finco Oil, Chem. 0145685

Finco Oil, Chem. 0145685

M.V. Harris 6-1-93 55970

U.S.M.I. U.S.M.I.

Yates Pet, et al 11-1-89 59406 12 M.L. Brown (Insall Com) 2

Finco Oil, Chem. 0145685

Finco Oil, Chem. 0145685

Finco Oil, Chem. 0145685

M.V. Harris 6-1-93 55970

Mobil HBP 0202771

U.S.M.I. U.S.M.I.

Finco Oil, Chem. 0145685

Finco Oil, Chem. 0145685

Finco Oil, Chem. 0145685

M.V. Harris 6-1-93 55970

U.S.M.I. U.S.M.I.

U.S.M.I. U.S.M.I.

Finco Oil, Chem. 0145685

Finco Oil, Chem. 0145685

Finco Oil, Chem. 0145685

M.V. Harris 6-1-93 55970

U.S.M.I. U.S.M.I.

U.S.M.I. U.S.M.I.

Finco Oil, Chem. 0145685

Finco Oil, Chem. 0145685

Finco Oil, Chem. 0145685

M.V. Harris 6-1-93 55970

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
P. O. BOX 88240
HOBBBS, NEW MEXICO

NM 0145685

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals.)

1. OIL WELL - GAS WELL OTHER Water Injection Well

2. NAME OF OPERATOR
FINA OIL & CHEMICAL COMPANY

3. ADDRESS OF OPERATOR
P. O. Box 2990, Midland, TX 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below)
At surface
1700' FNL, 920' FEL, Sec. 30, T-8-S, R-35-E

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Horton Federal

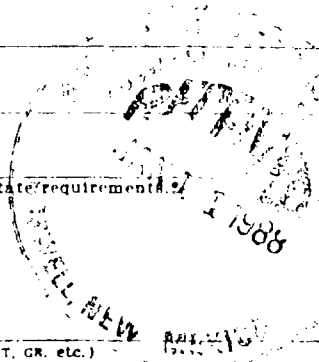
9. WELL NO.
38 (API 30-041-20821)

10. FIELD AND POOL OR WILDCAT
Milnesand San Andres

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
30, 8S, 35E, NMPM

12. COUNTY OR PARISH 13. STATE
Roosevelt NM

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)
RKB + 4225.5 GR +4213.5



16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Set production csg., test, complete

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Drilled 7-7/8" hole from 412' to 4658'. Ran 7-27/32"X4"X60' core barrel and cored from 4658' to 4718' recovering 60' of San Andres dolomite. Drilled 7-7/8" hole from 4718'-4805' TD on 11-20-87. Ran open-hole CNL-LDT-DLL-MSFL logs. Ran 5-1/2" guide shoe, (1) 5-1/2" 15.5# LT&C K-55 shoe joint with a baffle plate in collar followed by 121 jts. 5-1/2", 15.5#,LT&C K-55 csg. Set 5-1/2" csg. at 4805' with 10 centralizers on the bottom 10 jts. of csg. Mixed and pumped 1200 sx Halliburton lite "C" w/6# salt & 1/4# Flocele as lead and 200 sx "H" w/6# salt as tail. Circulated 150 sx to pit. Bumped plug and tested float at 8:15 a.m. 11-21-87. 12-8-87 to 12-18-87: Drilled out cement stringers to PBTD of 4756'. Perforated 5-1/2" csg. from 4716'-4740' w/13 0.43" dia. shots. Well was then acidized w/1000 gal.15% NEFE acid & swab-tested, yielding 315 BWPD influx. An Elder plastic coated AD-1 injection packer, plastic coated seating nipple and 146 jts. plastic coated 2-3/8" 4.7# J-55 injection tubing was run w/ pkr. set @ 4610'. Commenced water injection at 50 BWIPD @ 760 psi on 12-18-87.

18. I hereby certify that the foregoing is true and correct

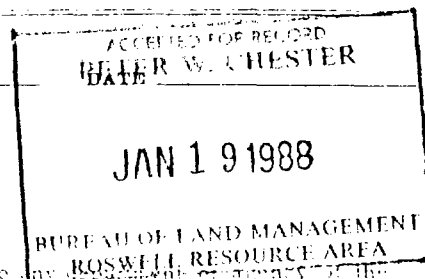
SIGNED Neva Herndon
Neva Herndon
(This space for Federal or State office use)

TITLE Production Clerk

DATE 01-08-88

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____



*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)

Budget Bureau No. 1004-11
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.

NM 0145685

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Horton Federal

9. WELL NO. /API #

38 30-041-20821

10. FIELD AND POOL OR WILDCAT

Milnesad San Andres

11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA

30, 8~~5~~, 35E, NMPM

12. COUNTY OR PARISH

Roosevelt

13. STATE

NM

1. OIL WELL GAS WELL OTHER

Water Injection Well

2. NAME OF OPERATOR

Fina Oil & Chemical Company

3. ADDRESS OF OPERATOR

P. O. Box 2990 Midland, TX 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)

At surface

1700' FNL & 920' FEL, Sec. 30, T-8-S, R-35-E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

GR + 4213.5 DF + 4224.5

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETION	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)			

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other) spud & set surface csg & <input checked="" type="checkbox"/>			

(NOTE: Report results of multiple completion or well completion or recompletion Report and Log for

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Spud 4:00 PM 11/11/87 w/12 1/4" bit; drld to 412', deviation 1/4° @ 412'. Set 8 5/8", 24#, J-55, ST&C new csg @ 412' DF. Cmtd csg w/Halliburton using 300 sx class "C" w/2% CaCl2 + 1/4 lb/sk Flocele circulating approx 100 sx. WOC 8 hrs w/calculated compressive strength 700 psi. Pressured tested casing and BOP to 1000 psi for 30 minutes with no leak off.

18. I hereby certify that the foregoing is true and correct

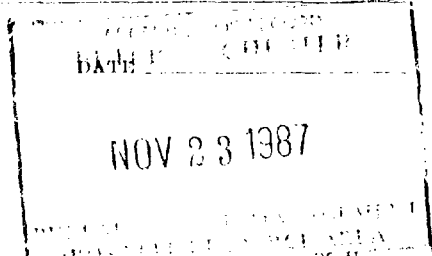
SIGNED Ronald E. Smelley
Ronald E. Smelley
(This space for Federal or State office use)

TITLE Dist. Prod. Mgr.

DATE 11-16-87

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____



*See Instructions on Reverse Side

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
N. M. STATE OF NEW MEXICO
STAMIT IN PUBLICATI
(Other Instructions on re-
verse side)
TOBBS, NEW MEXICO 83210

Budget Item No. 1001-5-1
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

NM 0145685

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL GAS WELL OTHER Water Injection Well

2. NAME OF OPERATOR

3. FINA OIL & CHEMICAL COMPANY

4. ADDRESS OF OPERATOR

Box 2990, Midland, TX 79702-2990

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface

1700' FNL & 920' FEL, Sec. 30, T-8-S, R-35-E

14. PERMIT NO.

15. ELEVATIONS (Show whether DP, RT, GR, etc.)

KB +4225.5 GR 4213.5

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Horton Federal

9. WELL NO./API No.

38, 30-041-20821

10. FIELD AND POOL OR WILDCAT

Milnesand San Andres

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA

30, 8S, 35E, NMPM

12. COUNTY OR PARISH

13. STATE

Roosevelt New Mexico

16 Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANE <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(Other) Set 5 1/2" casing and cement

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17 DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

11-20-87 Drilled 7-7/8" hole to TD of 4800' at 1:15 a.m., deviation 3/4°. Ran open-hole logs.

11-21-87 Ran 122 jts 5 1/2", 15.50#, K-55, LT&C new casing with 5 1/2" guide shoe at 4805'. Ran 10 centralizers on bottom 10 jts of casing. HOWCO cemented with 1200 sx Halliburton lite and 200 sx, Cl. "H" with 6#/sk salt. Bumped plug 8:15 a.m. and circulated 150 sx to pit. Released drilling rig 9:00 a.m.

CMT:nh

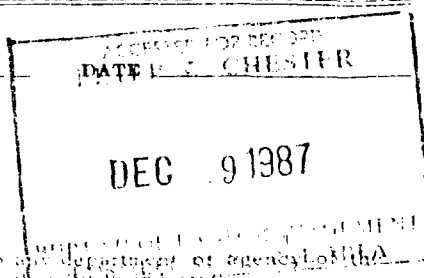
18. I hereby certify that the foregoing is true and correct

SIGNED Ronald E. Smelley TITLE Dist. Mgr. of Drilling & Production DATE 12-01-87

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:



*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other In-
structions on
reverse side)

Form approved,
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

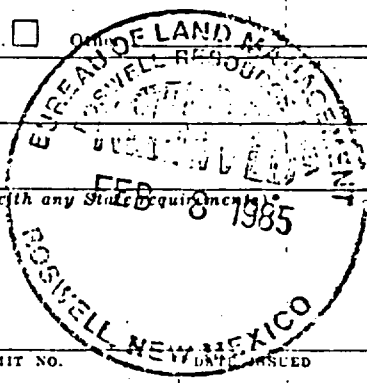
1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR.

2. NAME OF OPERATOR
AMERICAN PETROFINA CO. OF TEXAS

3. ADDRESS OF OPERATOR
Box 2990, Midland, TX 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
At surface 2320 FNL, 1550 FEL
At top prod. interval reported below
At total depth _____



14. PERMIT NO. _____ DATE ISSUED _____

5. LEASE DESIGNATION AND SERIAL NO.
NM 0145685

6. IF INDIAN, ALLOTTEE OR TRIBE NAME _____

7. UNIT AGREEMENT NAME _____

8. FARM OR LEASE NAME
Horton Federal

9. WELL NO. _____

10. FIELD AND POOL OR WILDCAT
Milnesand San Andres

11. SEC., T., R., M., OR BLOCK AND SURVEY OF AREA
30, T-8-S, R-35-E

12. COUNTY OR PARISH
Roosevelt

13. STATE
NM

15. DATE SPUDDED 11-23-84 16. DATE T.D. REACHED 12-02-84 17. DATE COMPL. (Ready to prod.) 1-12-85 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* GR 4212.6, KDB 4224 19. ELEV. CASING HEAD _____

20. TOTAL DEPTH, MD & TVD 4774 21. PLUG, BACK T.D., MD & TVD 4750 22. IF MULTIPLE COMPL., HOW MANY* - 23. INTERVALS DRILLED BY ROTARY TOOLS 0-4774 CABLE TOOLS _____

24. PRODUCING INTERVAL(S) OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
4665-70
4680-85 San Andres
4718-28

25. WAS DIRECTIONAL SURVEY MADE
No

26. TYPE ELECTRIC AND OTHER LOGS RUN
GR-FDC-CNL, DLL, MSFL, NGT, BHC

27. WAS WELL CORED
No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8	24	446	12-1/4	275 sx, Cl. C	None
5-1/2	15.5	4773	7-7/8	1200 sx, Cl. H	None

29. LINER RECORD None

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8	4667	

30. TUBING RECORD

31. PERFORATION RECORD (Interval, size and number)

4665-70, 4680-85, .43" 12 shots
4718-28 .43" 9 shots

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. -

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4665-70, 4680-85	250 gal. 15% NEFE acid.
4718-28	250 gal. 15% NEFE acid.

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
1-12-85	Pumping 2" tubing pump.	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
1-28-85	24	-	→	37	1	497	27 to 1

FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
-	-	→	37	1	497	27.1

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
Sold

ACCEPTED FOR RECORD
PETER W. CHESTER

TEST WITNESSED BY
Charles Tomblin

35. LIST OF ATTACHMENTS
Electric Logs

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Ronald E. Smelley TITLE BUREAU OF LAND MANAGEMENT DATE 1-31-85
R. E. Smelley
ROSWELL RESOURCE AREA

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions. If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 36.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
San Andres	3910	4773	Dolomite, Oil	San Andres Marker	3910	
Porosity	4662	4728				4519

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

38. GEOLOGIC MARKERS

RECEIVED
 OCT 30 1981
 OCCD
 HOBBS OFFICE

OPERATOR'S COPY

Form 3160-4
(November 1983)
(formerly 9-330)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other In-
structions on
reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

NM 0145685

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Horton Federal

9. WELL NO.

32

10. FIELD AND POOL, OR WILDCAT

Milnesand-San Andres

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

30, T-8-S, R-35-E
NMPM

12. COUNTY OR PARISH

Roosevelt

13. STATE

NM

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other T.A.

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR. Other _____

2. NAME OF OPERATOR
Fina Oil and Chemical Company

3. ADDRESS OF OPERATOR
P. O. Box 2990 Midland, TX 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 285' FEL & 2305 FNL

At top prod. interval reported below

At total depth

14. PERMIT NO. DATE ISSUED

15. DATE SPUDDED 11-15-84 16. DATE T.D. REACHED 11-23-84 17. DATE COMPL. (Ready to prod.) 12-20-84 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* +4224.3 DF & +4225.3 KDB 19. ELEV. CASINGHEAD +4214.6

20. TOTAL DEPTH, MD & TVD 4775' MD 21. PLUG. BACK T.D., MD & TVD 4730' 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY ROTARY TOOLS all CABLE TOOLS --

24. PRODUCING INTERVAL(S). OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 4652' - 4740' San Andres MD 25. WAS DIRECTIONAL SURVEY MADE yes

26. TYPE ELECTRIC AND OTHER LOGS RUN Comp. acoustic vel. log, dual guard, comp. density & DS neutron 27. WAS WELL CORED no

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24#	445'	12 1/4"	275 sx C1 "C" w/2% CACL	NA
5 1/2"	19.5#	4774'	7 7/8"	975 sx HLC w/salt & LCM	NA
				200 sx C1 "H" w/salt	

29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 7/8"	4724'	NA

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
INTERVAL	SHOTS	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4717' - 4725'	9	4717' - 4725'	250 gal 15% NEFE
4664' - 4666'	3	4664' - 4681'	250 gal 15% NEFE
4668' - 4681'	14		

33. PRODUCTION
DATE FIRST PRODUCTION 12-27-84 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) pumping 2 1/2"x2"x20' WELL STATUS (Producing or shut-in) shut-in

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
4-17-86	24			0	0	930	NA

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED [Signature] TITLE DRILLING FOREMAN DATE JAN 27 1987

*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem tests, including depth interval tested, cushion used, flowing and shut-in pressures, and recoveries):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	TOP		
				NAME	MEAS. DEPTH	TRUE VERT. DEPTH
T/San Andres Dr1g	4642	4740		Top San Andres	3908	

HOBBS OFFICE
 OCT 30 1981
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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other In-
structions on
reverse side)

Form approved,
Budget Bureau No. 42 R355.5.

5. LEASE DESIGNATION AND SERIAL NO.

NM 0145685

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Horton Federal

9. WELL NO.

36

10. FIELD AND POOL, OR WILDCAT

Milnesand-San Andres

11. SEC., T., R., M., OR BLOCK AND SURVEY
OR AREA

30, T-8-S, R-35-E

NMPM

12. COUNTY OR
PARISH

Roosevelt

13. STATE

New Mexico

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLEG BACK DIFF. RESVR. Other _____

2. NAME OF OPERATOR
American Petrofina Co. of Texas

3. ADDRESS OF OPERATOR
P.O. Box 2990 Midland, Texas 79702

DEC 24 1984

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 990 FNL, 1581 FEL

At top prod. interval reported below

At total depth

14. PERMIT NO. _____ DATE ISSUED 9/26/84

15. DATE SPUDDED 10/24/84 16. DATE T.D. REACHED 11-2-84 17. DATE COMPL. (Ready to prod.) 11-20-84 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 4229 DF 4230 KDB 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 4806 4890 4790 21. FLUG, BACK T.D., MD & TVD 4754 22. IF MULTIPLE COMPL., HOW MANY* _____ 23. INTERVALS DRILLED BY _____ ROTARY TOOLS X CABLE TOOLS _____

24. PRODUCING INTERVAL(S) OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 4655-4688 San Andres 4712-4732 25. WAS DIRECTIONAL SURVEY MADE NO

26. TYPE ELECTRIC AND OTHER LOGS RUN GR DEN.-CNL Sonic 27. WAS WELL CORED NO

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	24	442	12 1/4	275 sx CI "C"	-
5 1/2	15.5	4806	7 7/8	1175 sx HLC & 200 SX CI H	-

29. LINER RECORD None					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 7/8	4745	-

31. PERFORATION RECORD (Interval, size and number)			32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. -	
INTERVAL	SIZE	NUMBER	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4655-4688	.36	20 shots	4655-4688	3000 gals. 15% NEFE acid
4712-4732	.36	10 shots	4712-4732	2080 gals. 15% NEFE acid

ACCEPTED FOR RECORD
PETRO W. CHESTER

JAN 18 1985 PRODUCTION

33. DATE FIRST PRODUCTION 11-20-84 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Pump 2" Insert WELL STATUS (Producing or shut-in) Production

DATE OF TEST 12-20-84 HOURS TESTED 24 CHOKED SIZE 2" PROD'N. FOR TEST PERIOD TSTM OIL-BBL. GAS-MCF. WATER-BBL. GAS-OIL RATIO 244 -

FLOW. TUBING PRESS. CASING PRESSURE CALCULATED 24-HOUR RATE 27.5 OIL-BBL. GAS-MCF. TSTM WATER-BBL. 244 OIL GRAVITY-API (CORR.) 26.4

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sold TEST WITNESSED BY Curtis Allen

35. LIST OF ATTACHMENTS Density-Neutron Logs, Inclination Survey

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED _____ TITLE _____ DATE _____

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported. In item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sack's Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. **Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	38. GEOLOGIC MARKERS						
San Andres	4655	4688	Anhydritic dolomite with pp. & vug porosity with staining.	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">NAME</th> <th style="width: 50%;">TOP</th> </tr> </thead> <tbody> <tr> <td>San Andres</td> <td>MEAS. DEPTH 3896</td> </tr> <tr> <td>Pi Marker</td> <td>4505</td> </tr> </tbody> </table>	NAME	TOP	San Andres	MEAS. DEPTH 3896	Pi Marker	4505
NAME	TOP									
San Andres	MEAS. DEPTH 3896									
Pi Marker	4505									
	4712	4732	Anhydritic dolomite with pp. & vug porosity with staining.							

HOBS OFFICE
 OCT 30 1987
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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

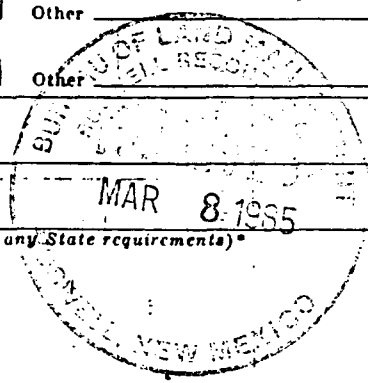
1a. TYPE OF WELL: OIL-WELL GAS WELL DRY Other _____

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESRV. Other _____

2. NAME OF OPERATOR
AMERICAN PETROFINA CO. OF TEX.

3. ADDRESS OF OPERATOR
Box 2990, Midland, TX 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 990 FNL, 295 FEL
At top prod. interval reported below
At total depth



5. LEASE DESIGNATION AND SERIAL NO.
NM 0145685

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Horton Federal

9. WELL NO.
37

10. FIELD AND POOL, OR WILDCAT
Milnesand San Andres

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
30, T-8-S, R-35-E, NMPM

12. COUNTY OR PARISH
Roosevelt

13. STATE
New Mexico

15. DATE SPUDDED 11-3-84 16. DATE T.D. REACHED 11-12-84 17. DATE COMPL. (Ready to prod.) 2-26-85 18. ELEVATIONS (DF, RKB, RT, CR, ETC.)* 4218 DF, 4219 KDB 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 4791 21. PLUG, BACK T.D., MD & TVD 4789 22. IF MULTIPLE COMPL. HOW MANY* 23. INTERVALS DRILLED BY 10-4791 ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 4505-4525, 4662-4680 San Andres 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN GR-FDC-CNL, NGT, DLL 27. WAS WELL CORED Yes

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8	24	446	12-1/4	275 sx. Cl. C	-
5-1/2	15.5	4790	7-7/8	950 sx. HLC, 200 sx. Cl. H	-

29. LINER RECORD None 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8	4746	

31. PERFORATION RECORD (Interval, size and number)

4505-4525; 18 shots	ACCEPTED FOR RECORD PETER W. CHESTER APR 10 1985
4662-4680, 10 shots	

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4505-4518	1500 gal. 15% NEFE
4662-4680	2000 gal. 15% NEFE

33. PRODUCTION

DATE FIRST PRODUCTION 12-8-84	PRODUCTION METHOD (Type of lift, pumping—size and type of pump) Pumping, 2" Insert	WELL STATUS (Producing or shut-in) Producing					
DATE OF TEST 2-27-84	HOURS TESTED 24	CHOKER SIZE 2"	PROD'N. FOR TEST PERIOD	OIL—BBL. 30	GAS—MCF. (1)	WATER—BBL. 519	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL. 30	GAS—MCF. (1)	WATER—BBL. 519	OIL GRAVITY-API (CORR.) 27.1	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY Curtis Allen

35. LIST OF ATTACHMENTS

2 Neutron-density logs, 2 deviation surveys

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED J. C. Chapman TITLE Assistant Dist. Mgr. of Prod. DATE 3-1-85

INSTRUCTIONS

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Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
San Andres	4659	4790	Dolomite, Oil, Water	San Andres π Marker	3911 4513	

37. SUMMARY OF POROUS ZONES;
38. GEOLOGIC MARKERS;
39. SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

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 OCT 30 1987
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WELL RECORD FINA-1768

COMPANY American Petrofina Co. of Texas			LEASE AND WELL NUMBER Horton Federal Unit #17		
FIELD Milnesand (San Andres)		CONTRACTOR Cactus Drilling Corp.		TOTAL DEPTH 4774'	PBTD 4772'
LOCATION 2310' FSL & 928.75' FEL Section 30 (Unit I NE/4 SE/4)					
SURVEY 30-8-35 NMPM			COUNTY Roosevelt		STATE New Mexico
ELEVATION DF 4220' GR 4212'		DATE COMPILED 7-24-84	DRILLING STARTED 9-7-64		DRILLING COMPLETED 9-17-64

DRILLING SUMMARY

Logs Available: Csg Inspection & Caliper, Sonic, Gamma Ray, Temperature

MUD PROGRAM

INTERVAL	TYPE MUD	WEIGHT	VIS	W. L.	REMARKS
NA					

CASING RECORD

	SIZE	WT	HOLE SIZE	DEPTH	SX CMT	REMARKS
SURFACE	8 5/8"	24#	11"	405'	250	
INTERMEDIATE						
OIL STRING	4 1/2"	9.5#	7 7/8"	4774'	250	700 @ 3867 30' Calc.
LINER						
TUBING	P & A					

DRILLSTEM TESTS

NO.	INTERVAL	RECOVERY	B.H.F.P.	S.I.B. H.P.	HYD
		NO DST			

WELL RECORD (CONTINUED)

GEOLOGICAL MARKERS - TOPS

FORMATIONS	DEPTH	SUB-SEA	FORMATIONS	DEPTH	SUB-SEA
Anhydrite	2202'	+2010'			
San Andres	3910'	+302'			

SURVEYS

	RUN NO.	INTERVAL		RUN NO.	INTERVAL

PAY SECTION

NUMBER PERFORATIONS PER FOOT	INTERVAL	STIMULATION	INTERVAL	AMOUNT
	2 spf	see below		
OPEN HOLE SIZE				

TESTS

	P.F. SWB.	HOURS	OIL	WATER	G.O.R.	CHOKE	FLOWING PRESSURES		SHUT-IN PRESSURES	
							TP	CP	TP	CP
NATURAL										
AFTER STIM (9-21-64) POTENTIAL	swab & flow	9	38	22	NA	full	NA	NA	NA	NA

COMPLETIONS AND REMARKS

- 9-21-64: Perf @ 4723-46' stim w/750 gal acid
- 5-4-67: Perf 4664-74', 4684-4700' (2 spf) Acd. w/3000 gal LSTNE.
BWO: 12 BOx 1 BWP (Pmp): AWO: Pmp(48 hrs) 277 BOx9BLW x 128 BNW
- 8-22-80: Acd w/1500 gal 15% NEFE. AWO: 4BO x 130 BWP (Pmp)
- 8-23-83: Perf 4674-84' (2 spf) Acd w/5000 gal 15% LSTNE acd.
AWO: Pmp 110 BO x600 BW x 260 MCFPD
- 12-30-83: DO bridges @ 2477', 2690', 2757' & 2841'. SI pending P & A.
P & A

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 BOEBS OFFICE

TOTAL COST	INTANGIBLES	TANGIBLES	PER FOOT



AMERICAN PETROCHEMICAL COMPANY OF TEXAS

ENGINEERING CHART

Horton Federal #17; Rosebud H. Co., N.M.

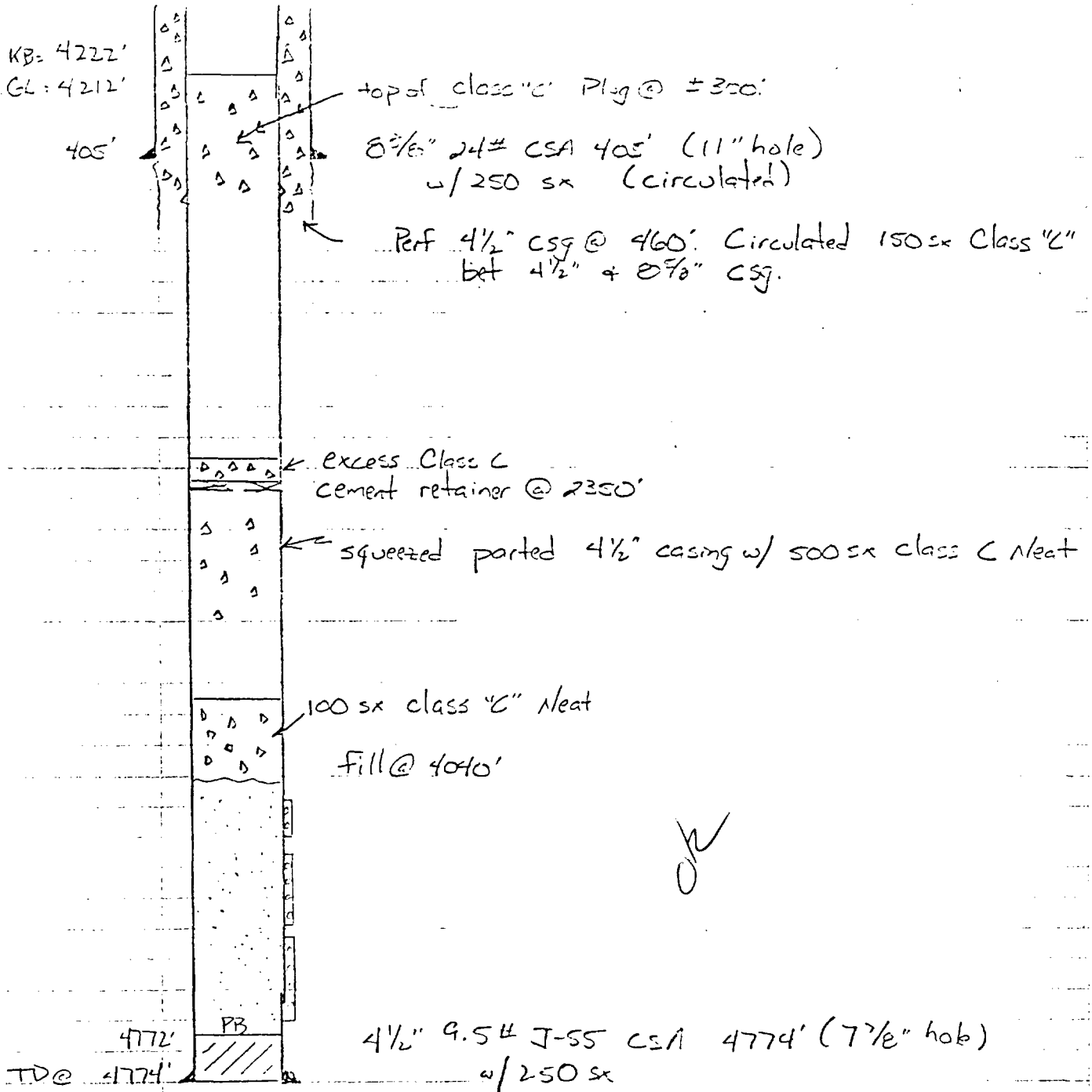
2310' FSL x 929' FFL (Unit I, N/E/1 E/E/4)

SHEET NO. _____ OF _____

FILE _____

DATE _____

BY _____



Perfs:

- 4664-74'
- 4674-84'
- 4684-4700'
- 4723-46'

WELL RECORD FINA-1768

COMPANY American Petrofina CO. of Texas		LEASE AND WELL NUMBER Horton Federal Unit #34			
FIELD Milnesand (San Andres)	CONTRACTOR Norton Drilling Co.		TOTAL DEPTH 4800'	PBTD 4775'	
LOCATION 2280'FSL & 865'FEL of section 30 (Unit I, NE/4 SE/4)					
SURVEY 30-8-35		COUNTY Roosevelt		STATE New Mexico	
ELEVATION DF 4225 GR 4212		DATE COMPILED 7-26-84	DRILLING STARTED 12-15-83	DRILLING COMPLETED 12-22-83	

DRILLING SUMMARY

Logs Available: Compensated Density. Compensated Neutron, Dual Laterolog
Cement Bord Log.

MUD PROGRAM

INTERVAL	TYPE MUD	WEIGHT	VIS	W. L.	REMARKS
0-400'	Native (fresh)				
400-4800'	Native (salt)				

CASING RECORD

	SIZE	WT	HOLE SIZE	DEPTH	SX CMT	REMARKS
SURFACE	8 5/8"	24#	12 1/4"	400'	250	
INTERMEDIATE					<i>OK</i>	
OIL STRING	5 1/2"	15.5#	7 7/8"	4800'	1825	
LINER						
TUBING	2 7/8"	6.5#		4737'		J-55

DRILLSTEM TESTS

NO.	INTERVAL	RECOVERY	B.H.F.P.	S.I.B. H.P.	HYD
		No DST			

WELL RECORD (CONTINUED)

GEOLOGICAL MARKERS - TOPS

FORMATIONS	DEPTH	SUB-SEA	FORMATIONS	DEPTH	SUB-SEA
Anhydrite	2284'	+1928'			
San Andres	3930'	+282'			

SURVEYS

RUN NO.	INTERVAL	RUN NO.	INTERVAL

PAY SECTION

NUMBER PERFORATIONS PER FOOT	INTERVAL	STIMULATION	INTERVAL	AMOUNT
2 spf	4670'-4706' 4720-48'	15% LSTNE HCL	both	2800 gal.
OPEN HOLE SIZE				
none				

TESTS

	P.F. SWB.	HOURS	OIL	WATER	G.O.R.	CHOKE	FLOWING PRESSURES		SHUT-IN PRESSURES	
							TP	CP	TP	CP
NATURAL		NO TEST								
AFTER STIM (1-30-84)										
POTENTIAL	Pmp	24	62	475	NA	Pmp	NA	28	NA	NA

COMPLETIONS AND REMARKS

1-84: Perf 4670-4706', & 4720-48' (4 spf). Acid w/2800 gal 15% LST NE HCL.

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 OCCC
 HIGBBS OFFICE

TOTAL COST	INTANGIBLES	TANGIBLES	PER FOOT



AMERICAN PETRO NA COMPANY OF TEXAS

ENGINEERING CHART

Horton Federal Unit # 34

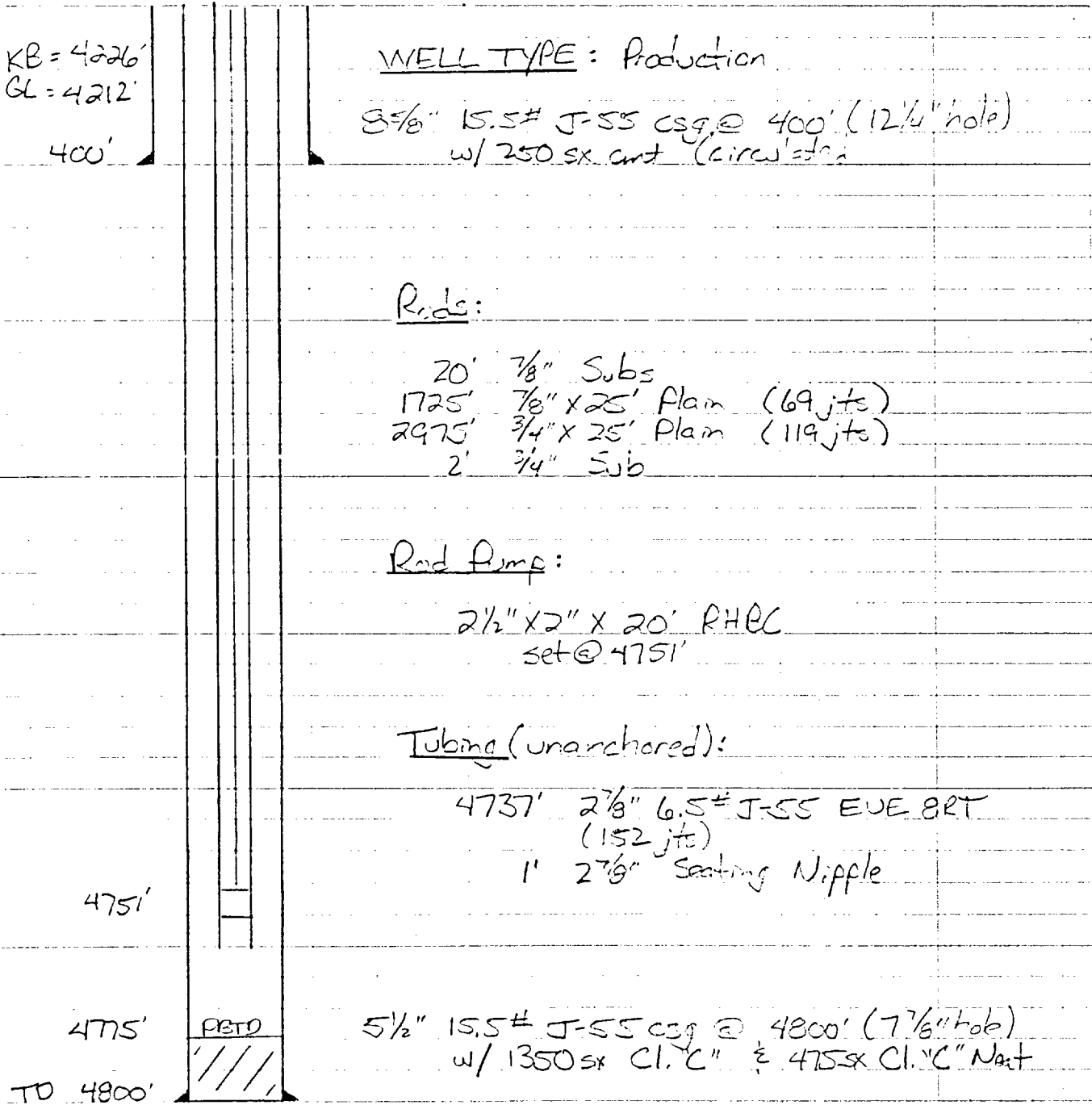
Roswell County, New Mexico

SHEET NO. _____ OF _____

FILE _____

DATE 7-26-84

BY JON DAVID CARON



Perfs (4 spf):

ZONE A: 4670-4706'
ZONE B: 4720-48'

Stimulation (1-13-84):

Acidized w/ 2800 gal
15% LSTNE HCL

WELL RECORD FINA-1768

COMPANY American Petrofina Co. of Texas			LEASE AND WELL NUMBER Horton Federal Unit #25		
FIELD Milnesand (San Andres)		CONTRACTOR Cactus Drilling Corp.		TOTAL DEPTH 4755'	PBTD 4755'
LOCATION 1650' FNL & 1652.3' F/L of Section 29, (Unit F SE/4 NW/4)					
SURVEY 29-8-35 NMPM			COUNTY Roosevelt		STATE New Mexico
ELEVATION DF 4216' GR 4208'			DATE COMPILED 7-25-84	DRILLING STARTED 11-17-64	DRILLING COMPLETED 11-26-64
DRILLING SUMMARY					

Logs Available: Gamma Ray-Neutron Tracer

MUD PROGRAM					
INTERVAL	TYPE MUD	WEIGHT	VIS	W. L.	REMARKS

CASING RECORD						
	SIZE	WT	HOLE SIZE	DEPTH	SX CMT	REMARKS
SURFACE	8 5/8"	24#	12 1/4"	401'	225	
INTERMEDIATE						
OIL STRING	4 1/2"	9.5#	7 78/100"	4716'	250	
LINER						
TUBING	2 3/8"	4.7#		4629'		J-55

DRILLSTEM TESTS					
NO.	INTERVAL	RECOVERY	B.H.F.P.	S.I.B. H.P.	HYD
		NO DST			

WELL RECORD (CONTINUED)

GEOLOGICAL MARKERS - TOPS

FORMATIONS	DEPTH	SUB-SEA	FORMATIONS	DEPTH	SUB-SEA
Anhydrite	2220'	+1988'			
San Andres	3937'	+271'			

SURVEYS

	RUN NO.	INTERVAL		RUN NO.	INTERVAL

PAY SECTION

NUMBER PERFORATIONS PER FOOT	INTERVAL	STIMULATION	INTERVAL	AMOUNT
2 spf OPEN HOLE SIZE	4687-4705'	15% NEFE HCL	perfs &	4000 gal
3 7/8"	4716-4755'	15% NEFE HCL	open hole	4000 gal

TESTS

	P.F. SWB.	HOURS	OIL	WATER	G.O.R.	CHOKE	FLOWING PRESSURES		SHUT-IN PRESSURES	
							TP	CP	TP	CP
NATURAL				NO TEST						
(5-22-68) AFTER STIM	Pmp	24	31	54	NA	Pmp	NA	NA	NA	NA
(11-29-64) POTENTIAL	Flowing	8	40	0	530	24/64	NA	NA	NA	NA

COMPLETIONS AND REMARKS

11-29-64: Perf 4687-4705' (2 spf). Acd. w/750 gal.

5-22-68: Acd. w/1500 gal LSTNE. BWO: Pmp 22B0x15BWP0; AWO Pmp 31B0x54BWP0

4-9-80: Deppened to 4755'. Acd. w/4000 gal 15% NEFE HCL (2 stages) sep. by 300# rx salt in 350 gal gelled brine. converted to injection

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TOTAL COST	INTANGIBLES	TANGIBLES	PER FOOT



AMERICAN PETROLEUM COMPANY OF TEXAS

ENGINEERING CHART

SHEET NO. _____ OF _____

Horton Federal Unit # 25

FILE _____

Pecos County, New Mexico

DATE 7-25-84

BY JAN DAVID CARIN

KB = 4513'
GL = 4508'
401'

WELL TYPE: Injection

8 7/8" 24# J-55 csg @ 401' (12 1/4" hole)
w/ 225 sx cmt (circulated)

Tubing:

4629' (150 jts) 2 3/8" 4.7# J-55 EUEBRD

Packer:

Guiberson Uni I 2 3/8" x 4 1/2" x 3'
set @ 4642' w/ 12 pts tension

4642'



4 1/2" 9.5# J-55 csg @ 4716' (7 7/8" hole)
w/ 250 sx cmt

4716'

open hole (3 7/8" bit) 4716-4755'

TD 4755'

Perfs (2-2-81):

ZONE A: 4687-4705'
open hole: 4716-55'

Stimulation (4-9-80):

Acidized w/ 4000 gal
15% NEFE HCL (2 stages)
sep. by 300# rx salt in 300
gal gelled brine

WELL RECORD FINA-1768

COMPANY American Petrofina Co. of Texas		LEASE AND WELL NUMBER Horton Federal Unit #21		
FIELD Milnesand (San Andres)	CONTRACTOR Cactus Drilling Corp.	TOTAL DEPTH 4775'	PBTD 4744'	
LOCATION 2310' FSL & 330' FWL of section 29 (Unit L NW/4 SW/4)				
SURVEY 29-8-35 NMPM		COUNTY Roosevelt	STATE New Mexico	
ELEVATION DF 4217' GR 4209'		DATE COMPILED 7-25-84	DRILLING STARTED 10-6-64	DRILLING COMPLETED 10-14-64

DRILLING SUMMARY

Logs Available: Sonic, Gamma Ray, Tacer, Temperature

MUD PROGRAM

INTERVAL	TYPE MUD	WEIGHT	VIS	W. L.	REMARKS
0-400'	Native (fresh)				
400-TD	SW Gel-oil	10.3-	33-38		

CASING RECORD

	SIZE	WT	HOLE SIZE	DEPTH	SX CMT	REMARKS
SURFACE	8 5/8"	24#	12 1/4"	418'	250	
INTERMEDIATE						
OIL STRING	4 1/2"	9.5#	7 7/8"	4775'	250	TOG 3948 C.D.C.
LINER						
TUBING	2 3/8"	4.7#		4568'		J-55

DRILLSTEM TESTS

NO.	INTERVAL	RECOVERY	B.H.F.P.	S.I.B. H.P.	HYD
		NO DST			

WELL RECORD (CONTINUED)

GEOLOGICAL MARKERS - TOPS

FORMATIONS	DEPTH	SUB-SEA	FORMATIONS	DEPTH	SUB-SEA
Anhydrite	2213'	+1996'			
San Andres	3915'	+294'			

SURVEYS

RUN NO.	INTERVAL	RUN NO.	INTERVAL

PAY SECTION

NUMBER PERFORATIONS PER FOOT	INTERVAL	STIMULATION	INTERVAL	AMOUNT
2 spf	4692,97,4701' 05,08,4720-40'	NEFE HCL	all intervals	2000 gal
OPEN HOLE SIZE				
none				

TESTS

	P.F. SWB.	HOURS	OIL	WATER	G.O.R.	CHOKE	FLOWING PRESSURES		SHUT-IN PRESSURES	
							TP	CP	TP	CP
NATURAL										
AFTER STIM										
(10-23-64) POTENTIAL	164	9	45	119	NA	NA	NA	NA	NA	NA

COMPLETIONS AND REMARKS

10-22-64: Perf 4692,97, 4701, 4705, 4708', & 4732-52' (2spf) Acid 4692-4708' w/750 gal. Acd 4732-52' w/750 gal. no show-sqzd 4732-52'

1-13-82: SI since 12-1-70 DO cmt. to 4744'. Perf 4720-40'(2spf) Acd all zones w/2000 gal NEFE HCL & 200 gal MUSOL A (2stages) sep by 150# rx salt & 75# 100 mesh salt. IANO: 650 BWPD converted to injection

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TOTAL COST	INTANGIBLES	TANGIBLES	PER FOOT



AMERICAN PETROLEUM COMPANY OF TEXAS

ENGINEERING CHART

Horton Federal Unit #21

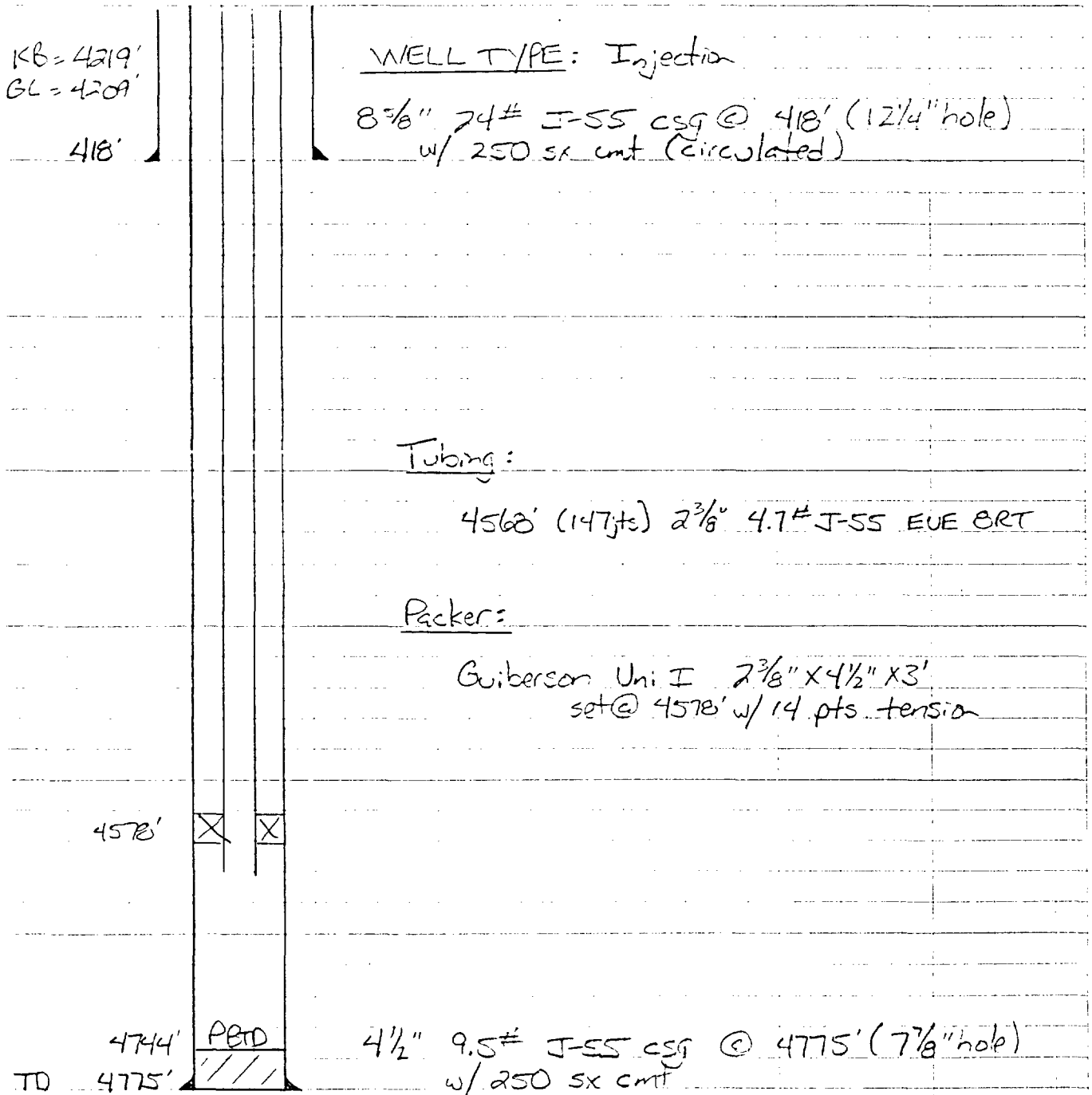
Roosevelt County, New Mexico

SHEET NO _____ OF _____

FILE _____

DATE 7-25-84

BY JON DAVID CARR



Perfs* (2 spf):

- ZONE A: 4692'
- ZONE B: 4697'
- ZONE C: 4701
- ZONE D: 4705
- ZONE E: 4708
- ZONE F: 4720-40'

* spf perf @ 4740-52'

Stimulation (1-13-82):

Acidized w/ 2000 gal NEFE HCL & 200 gal MUSOL A

WELL RECORD FINA-1768

COMPANY American Petrofina Co. of Texas			LEASE AND WELL NUMBER Horton Federal Unit #18		
FIELD Milnesand (San Andres)	CONTRACTOR Cactus Drilling Corp.		TOTAL DEPTH 4770'	PBD 4768'	
LOCATION 1650.5' FNL & 330' FWL, section 29 (Unit E, SW/4 NW/4)					
SURVEY 29-8-35 NMPM		COUNTY Roosevelt	STATE New Mexico		
ELEVATION DF 4216' GR 4207'		DATE COMPILED 7-25-84	DRILLING STARTED 9-19-64	DRILLING COMPLETED 9-28-64	
DRILLING SUMMARY					

Logs Available: Gamma Ray, Sonic, Resistivity

MUD PROGRAM

INTERVAL	TYPE MUD	WEIGHT	VIS	W. L.	REMARKS
NA					

CASING RECORD

	SIZE	WT	HOLE SIZE	DEPTH	SX CMT	REMARKS
SURFACE	8 5/8"	24#	12 1/4"	395'	250	OK
INTERMEDIATE						
OIL STRING	4 1/2"	9.5#	7 7/8"	4770'	250	
LINER						
TUBING	2 7/8"	6.5#		4632'		J-55

DRILLSTEM TESTS

NO.	INTERVAL	RECOVERY	B.H.F.P.	S.I.B. H.P.	HYD
		NO DST			

WELL RECORD (CONTINUED)

GEOLOGICAL MARKERS - TOPS

FORMATIONS	DEPTH	SUB-SEA	FORMATIONS	DEPTH	SUB-SEA
Anhydrite	2199'	+2008'			
San Andres	3910'	+297'			

SURVEYS

	RUN NO.	INTERVAL		RUN NO.	INTERVAL

PAY SECTION

NUMBER PERFORATIONS PER FOOT	INTERVAL	STIMULATION	INTERVAL	AMOUNT
	2 spf	4662-96' 4718-42'	15% LSTNE HCL	both
OPEN HOLE SIZE				

TESTS

	P. F. SWB.	HOURS	OIL	WATER	G.O.R.	CHOKE	FLOWING PRESSURES		SHUT-IN PRESSURES	
							TP	CP	TP	CP
NATURAL			NO TEST							
(1-13-83) AFTER STIM	Pmp	24	7	469	NA	Pmp	NA	NA	NA	NA
(10-2-64) POTENTIAL	120	9	80	40	NA	NA	NA	NA	NA	NA

COMPLETIONS AND REMARKS

- 10-1-64: Perf 4718-34' (2 spf) Acd. w/750 gal
- 1-9-68: Perf 4664-96'. Acd w/3000 gal 20% LSTNE.
BWO: Pmp 40 BOx10BWPD: AWO: Pmp 101BOx87BWPD
- 12-12-75: SI sice 2-1-71 sqzd perfs @ 4664-96'. Perf 4718-42' (2spf)
Acd. w/2000 gal 15% NE HCL. AWO: OBOx168BWPD
- 1-13-83: Perf 4662-96' (2 spf) set BP @ 4712'. Acd. w/1500 gal 15%LSTNE HCL
AWO: Pmp 7 BO x 469 BW x 7 MCFD

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TOTAL COST	INTANGIBLES	TANGIBLES	PER FOOT



AMERICAN PETRO NA COMPANY OF TEXAS

ENGINEERING CHART

Horton Federal Unit # 1A

Roosvelt County, New Mexico

SHEET NO _____ OF _____

FILE _____

DATE 7-25-84

BY JOHN DAVID CARRON

KB = 4217'
GL = 4507'
395'

WELL TYPE: Production

8 7/8" 24# J-55 csg @ 395' (12 1/4" hole)
w/ 250 sk cmt (circulated)

Rods:

8' 7/8" Subs
1675' 7/8" x 25' Plain (67 jts)
2900' 3/4" x 25' Plain (116 jts)
2' 3/4" Sub

Rod Pump:

2 1/2" x 2" x 20' RWBC
set @ 4642'

Tubing (unanchored):

4632' (148 jts) 2 7/8" 6.5# J-55 EUE BRD
1' 2 7/8" Sealing Nipple

4642'

TD 4768' PBTD
4770' ///

4 1/2" 9.5# J-55 csg @ 4770' (7 7/8" hole)
w/ 250 sk cmt.

Perfs (2spf):

ZONE A: 4662-96'
ZONE B: 4718-42'

Stimulation (1-13-83):

Acidized w/ 1500 gal
15% LSTNE HCL

WELL RECORD FINA-1768

COMPANY American Petrofina Co. of Texas			LEASE AND WELL NUMBER Horton Federal Unit #20			
FIELD Milnesand (San Andres)		CONTRACTOR Cactus Drilling Corp.		TOTAL DEPTH 4764'	PBTD 4763'	
LOCATION 330' FNL & 330' FWL of section 29 (Unit D, NW/4 NW/4)						
SURVEY 29-8-35 NMPM		COUNTY Roosevelt		STATE New Mexico		
ELEVATION DF 4217' GR 4209'		DATE COMPILED 7-25-84	DRILLING STARTED 9-27-64	DRILLING COMPLETED 10-6-64		
DRILLING SUMMARY						

Logs Available: Sonic, Gamma Ray, Collar Locator, Tracer Temperature

MUD PROGRAM

INTERVAL	TYPE MUD	WEIGHT	VIS	W. L.	REMARKS
NA					

CASING RECORD

	SIZE	WT	HOLE SIZE	DEPTH	SX CMT	REMARKS
SURFACE	8 5/8"	24#	12 1/4"	403'	250	
INTERMEDIATE						
OIL STRING	4 1/2"	9.5#	7 7/8"	4764'	250	
LINER						
TUBING	2 3/8"	4.7#		4534'		J-55 plastic coated

DRILLSTEM TESTS

NO.	INTERVAL	RECOVERY	B.H.F.P.	S.I.B. H.P.	HYD
		NO DIST			

WELL RECORD (CONTINUED)

GEOLOGICAL MARKERS - TOPS

FORMATIONS	DEPTH	SUB-SEA	FORMATIONS	DEPTH	SUB-SEA
anhydrite	2200'	+2009'			
San Andres	3930'	+279'			

SURVEYS

RUN NO.	INTERVAL	RUN NO.	INTERVAL

PAY SECTION

NUMBER PERFORATIONS PER FOOT	INTERVAL	STIMULATION	INTERVAL	AMOUNT
2 spf	4661, 68, 75, 84, 4692', 4720-40'	15% ME HCL	4720-40'	3000 gal
OPEN HOLE SIZE				
none				

TESTS

	P.F. SWB.	HOURS	OIL	WATER	G.O.R.	CHOKE	FLOWING PRESSURES		SHUT-IN PRESSURES	
							TP	CP	TP	CP
NATURAL		NO TEST								
AFTER STIM										
(10-8-64) POTENTIAL	flowing	6	40	25	620	20/64	250	0	NA	NA

COMPLETIONS AND REMARKS

- 10-8-64: Perf 4661,68,75,84, 4692' (2spf) Ac.d. w/1000 gal
- 11-8-73: Perf 4720-40' (2spf) Ac.d same w/3000 gal 15% NE. Ac.d. old perms w/3000 gal 15% NE; BWO:Pmp OBOx64 BWPD
AWO; Pmp 35BOx41 BWPD
- 1-13-82: Ac.d. w/2000 gal 15% NEFE HCL, 200 gal MUSOL A (2stages) sep. by 400# rx salt, & 200# 100 mesh salt. converted to injection
IAWO: 620 BWPD @ 300 psi.
- 8-23-83: Ac.d. 4720-40' w/3000 gal 15% NE HCL. IAWO: 966 BWPD @ 560 psi.

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TOTAL COST	INTANGIBLES	TANGIBLES	PER FOOT



AMERICAN PETROLEUM COMPANY OF TEXAS

ENGINEERING CHART

Horton Federal Unit # 20

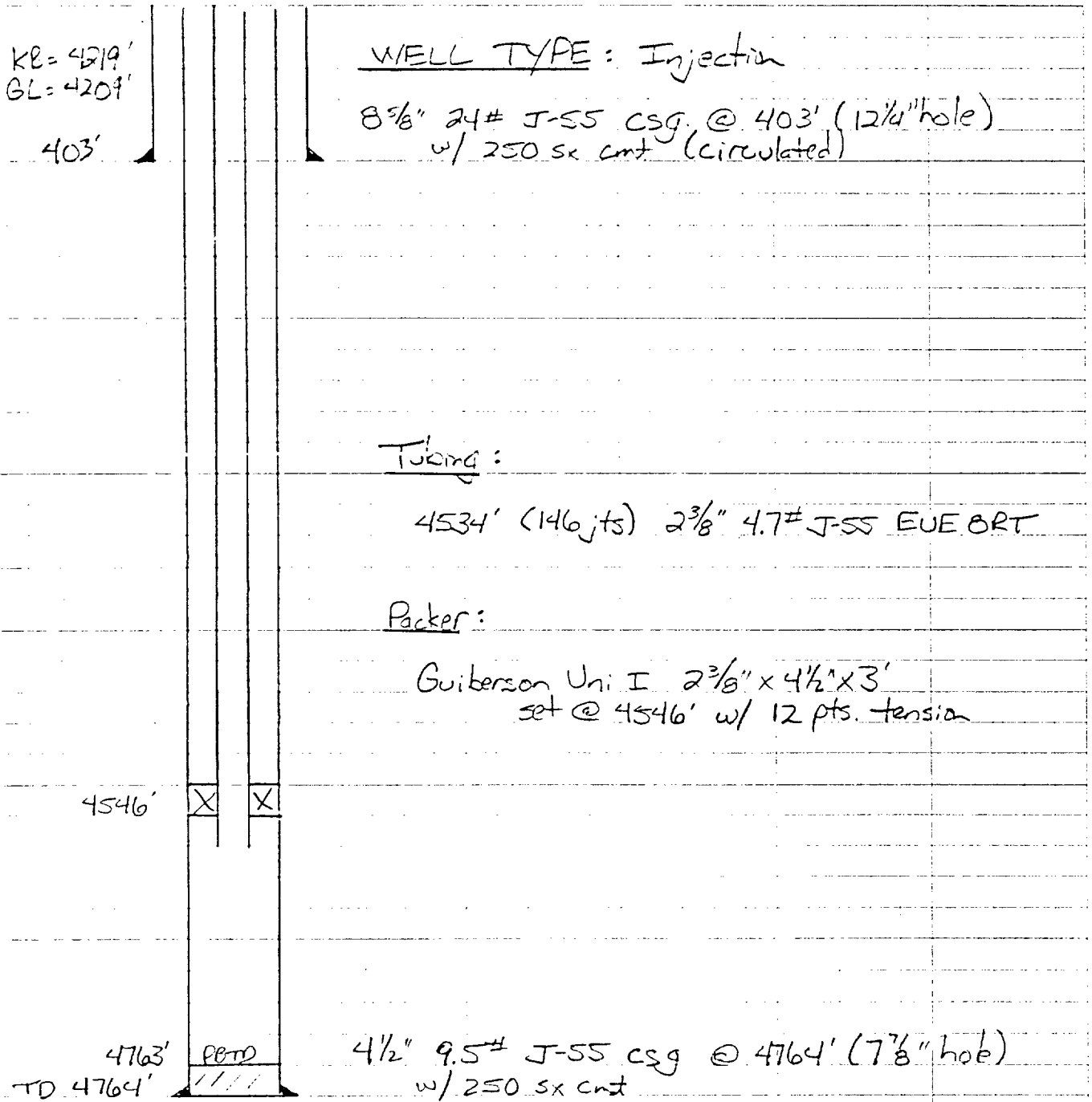
Roosevelt County, New Mexico

SHEET NO _____ OF _____

FILE _____

DATE 7-25-84

BY JIM DAVID CARON



KB = 4219'
GL = 4209'

403'

WELL TYPE: Injection

8 5/8" 24# J-55 CSG @ 403' (1 1/4" hole)
w/ 250 sx cmt (circulated)

Tubing:

4534' (146 jts) 2 3/8" 4.7# J-55 EUE BRT

Packer:

Guiberson Uni I 2 3/8" x 4 1/2" x 3'
set @ 4546' w/ 12 pts. tension

4546'

4763'

PERTD

TD 4764'

4 1/2" 9.5# J-55 CSG @ 4764' (7 7/8" hole)
w/ 250 sx cmt

Perfs (2 spf):

- ZONE A: 4661'
- ZONE B: 4668'
- ZONE C: 4675'
- ZONE D: 4684'
- ZONE E: 4692'
- ZONE F: 4720-40'

Stimulation (8-23-83):

ZONE F Acidized w/ 3000 gal
15% NE HCL

1-13-82:

ZONES A-F Acidized w/ 2000 gal
15% NEFE HCL, & 200 gal MUSOLA

WELL RECORD FINA-1768

COMPANY American Petrofina Co. of Texas			LEASE AND WELL NUMBER Horton Federal Unit #13		
FIELD Milnesand (San Andres)		CONTRACTOR Cactus Drilling Corp.		TOTAL DEPTH 4776'	PBTD 4774'
LOCATION 990' FSL & 2248' 74' FEL of section 30 (Unit 0, SW/4 SE/4)					
SURVEY 30-8-35 NMPM		COUNTY Roosevelt		STATE New Mexico	
ELEVATION DF 4220 GR 4212		DATE COMPILED 7-24-84	DRILLING STARTED 9-16-64		DRILLING COMPLETED 9-24-64
DRILLING SUMMARY					

Logs Available: Sonic, Gamma Ray, Laterolog (LL3), Collar Locator

MUD PROGRAM

INTERVAL	TYPE MUD	WEIGHT	VIS	W. L.	REMARKS
NA					

CASING RECORD

	SIZE	WT	HOLE SIZE	DEPTH	SX CMT	REMARKS
SURFACE	8 5/8"	24#	11"	417'	250	
INTERMEDIATE					<i>OK</i>	
OIL STRING	4 1/2"	9.5#	7 7/8"	4776'	250	
LINER						
TUBING	2 3/8"	4.7#		4753'		J-55

DRILLSTEM TESTS

NO.	INTERVAL	RECOVERY	B.H.F.P.	S.I.B. H.P.	HYD
		NO DST			

WELL RECORD (CONTINUED)

GEOLOGICAL MARKERS - TOPS

FORMATIONS	DEPTH	SUB-SEA	FORMATIONS	DEPTH	SUB-SEA
Anhydrite	2200'	+2012'			
San Andres	3932'	+280'			

SURVEYS

RUN NO.	INTERVAL	RUN NO.	INTERVAL

PAY SECTION

NUMBER PERFORATIONS PER FOOT	INTERVAL	STIMULATION	INTERVAL	AMOUNT
2 spf	4680-4714' 4734-54'	15% Acid	both intervals	3000 gal
OPEN HOLE SIZE				
none				

TESTS

	P.F. (bbl)	HOURS	OIL	WATER	G.O.R.	CHOKE	FLOWING PRESSURES		SHUT-IN PRESSURES	
							TP	CP	TP	CP
NATURAL		NO TEST								
(8-15-67) AFTER STIM	Pmp	24	100	149	112	Pmp	NA	NA	NA	NA
(9-29-64) POTENTIAL	84	7	54	30	NA	NA	NA	NA	NA	NA

COMPLETIONS AND REMARKS

9-28-64: Perf 4734-54' (2 spf) Acd w/ 750 gal acid. PT (swab) 54 B0 x 30 BWPD

8-15-67; Perf 4680-4714' (2 spf) Acd. w/3000 gal 15% acid.
BWO Pmp 1 Box15BWPD, AWO: Pmp 100 B0 x 149 BWPD

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TOTAL COST	INTANGIBLES	TANGIBLES	PER FOOT



AMERICAN PETROBRAS COMPANY OF TEXAS

ENGINEERING CHART

Horton Federal Unit #13

Roosevelt County, New Mexico

SHEET NO. _____ OF _____

FILE _____

DATE 7-24-84

BY JON DAVID CARON

KB=4222'
GL=4212'

417'

WELL TYPE: Production

8 5/8" 24# J-55 csg @ 417' (11" hole)
w/ 250 sx cnt. (circulated)

Rods:

10' 7/8" Pops
1450' 7/8" x 25' Plam (58 jts)
3250' 3/4" x 25' Plam (130 jts)

Rod Pump:

2" x 1 1/2" x 24' RHBC
set @ 4764'

Tubing (unanchored):

4753' (154 jts) 2 3/8" 4.7# J-55 EVE BRT
1' 2 3/8" Seating Nipple

4764'

4774' PBD
TD 4776'

4 1/2" 9.5# J-55 csg @ 4776' (7 7/8" hole)
w/ 250 sx cnt.

Perfs (25pf):

ZONE A: 4680-4714'
ZONE B: 4734-54'

Stimulation (8-15-67):

Acidized w/ 3000 gal
15% acid.

WELL RECORD FINA-1768

COMPANY American Petrofina Co. of Texas			LEASE AND WELL NUMBER Horton Federal Unit #15		
FIELD Milnesand (San Andres)		CONTRACTOR Caëtus Drilling Corp.		TOTAL DEPTH 5396'	PBTD 4810'
LOCATION 990' FNL & 928.75' FEL of section 30, (Unit P SE/4 Se/4)					
SURVEY 30-8-35 NMPM			COUNTY Roosevelt		STATE New Mexico
ELEVATION DF 4219' GR 4211'			DATE COMPILED 7-24-84	DRILLING STARTED 8-21-64	DRILLING COMPLETED 9-3-64

DRILLING SUMMARY

Logs Available: Induction Tracer

MUD PROGRAM

INTERVAL	TYPE MUD	WEIGHT	VIS	W. L.	REMARKS
NA					

CASING RECORD

	SIZE	WT	HOLE SIZE	DEPTH	SX CMT	REMARKS
SURFACE	8 5/8"	24#	11"	2202'	700	<i>Cracked</i>
INTERMEDIATE						
OIL STRING	4 1/2"	9.5#	7 7/8"	5396'	450	<i>OK 700@ 3764 Code</i>
LINER						
TUBING	2 3/8"	4.7#		4587'		J-55

DRILLSTEM TESTS

NO.	INTERVAL	RECOVERY	B.H.F.P.	S.I.B. H.P.	HYD
		NO DST			

WELL RECORD (CONTINUED)

GEOLOGICAL MARKERS - TOPS

FORMATIONS	DEPTH	SUB-SEA	FORMATIONS	DEPTH	SUB-SEA
Anhydrite	2221'	+1990'			
San Andres	3921'	+290'			

SURVEYS

RUN NO.	INTERVAL	RUN NO.	INTERVAL

PAY SECTION

NUMBER PERFORATIONS PER FOOT	INTERVAL	STIMULATION	INTERVAL	AMOUNT
2 spf	4672-90', 4691-4714', 4736-52'	15% NEFE HCL	all intervals (2 stages)	5000 gal
OPEN HOLE SIZE				

TESTS

	P.F. SWB.	HOURS	OIL	WATER	G.O.R.	CHOKE	FLOWING PRESSURES		SHUT-IN PRESSURES	
							TP	CP	TP	CP
NATURAL										
AFTER STIM										
(9-11-64) POTENTIAL	flowing	24	103	0	954	18/64	200	NA	NA	NA

COMPLETIONS AND REMARKS

9-11-64: Perf 5320-40', 5304-14', & 4691-4714' (2 spf) Acidized 5320-40' w/1000 gal acid (no show) Acid. 5304-14' w/6000 gal (no show) BP set @ 5250'. Acid. 4691-4714' W/1000 gal acid, PT (flowed) 103 BOxOBWx100 MCFPD.

12-70: well shut in due to 100% water prod.

4-9-80: BP set @ 4810' w/2sx class "C" Perf 4672-90', & 4736-52' (2 spf) Acid. well w/5000 gal 15% NEFE HCL (2stages) converted to water injection

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TOTAL COST	INTANGIBLES	TANGIBLES	PER FOOT



AMERICAN PETROBRAS COMPANY OF TEXAS

ENGINEERING CHART

Horton Federal Unit # 15

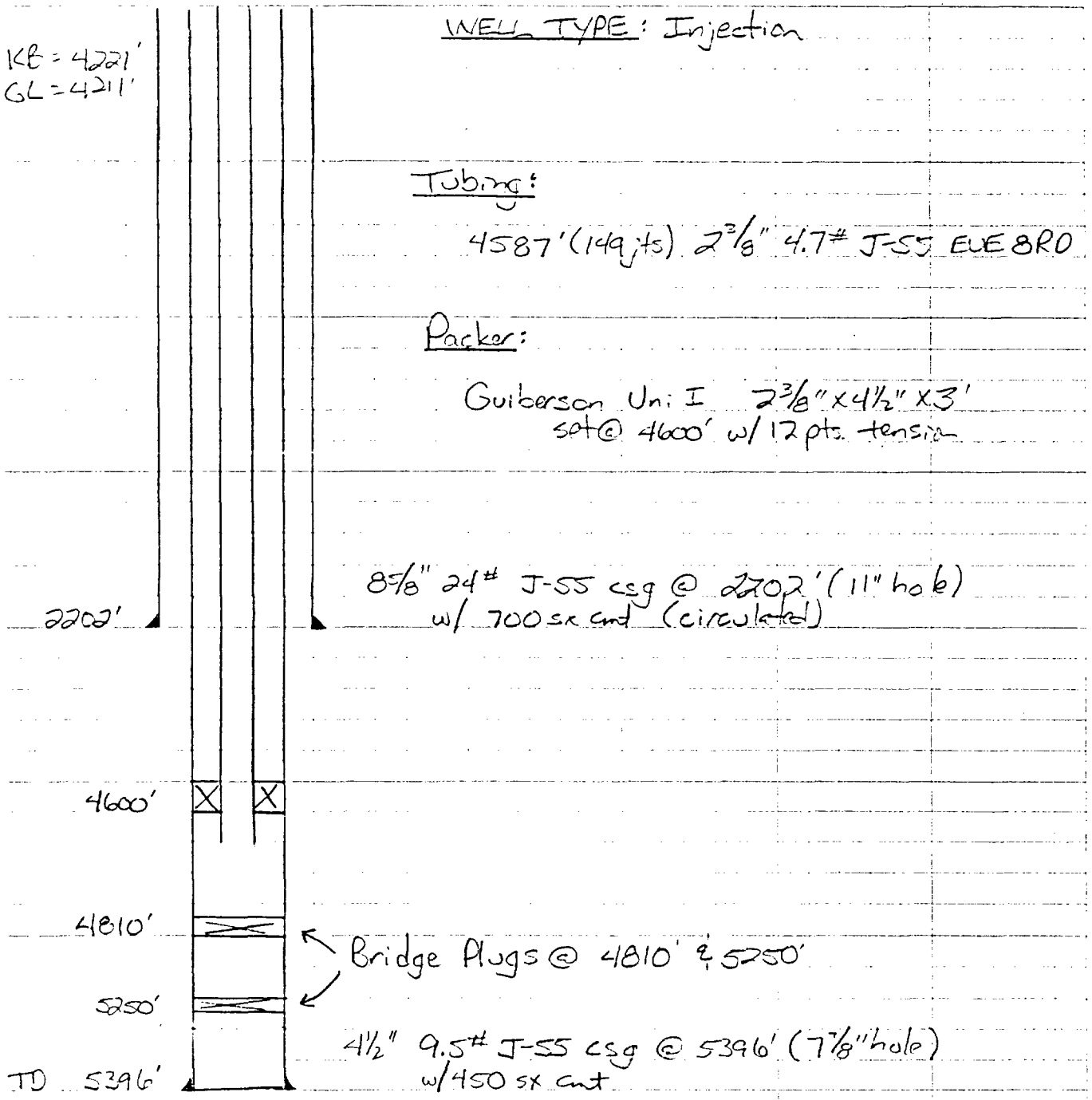
Roosevelt County, New Mexico

SHEET NO. _____ OF _____

FILE _____

DATE 7-24-84

BY JOHN DAVID CAROL



Perfs* (2spf):

- ZONE A: 4672-90'
- ZONE B: 4691-4714'
- ZONE C: 4736-52'

Stimulation (4-9-80):

Acidized zones A, B, & C w/ 5000 gal 15% NEFE HCL

* perfs @ 5204-14' & 5320-40' below BP

WELL RECORD FINA-1768

COMPANY American Petrofina Co. of Texas			LEASE AND WELL NUMBER Horton Federal Unit #9		
FIELD Milnesand (San Andres)	CONTRACTOR Cactus Drilling Corp.		TOTAL DEPTH 4851'	PBTD 4811'	
LOCATION 2310' FSL & 2246.3 FFL of section 30 (unit J, NW/4 SE/4)					
SURVEY 30-8-35 NMPM		COUNTY Roosevelt	STATE New Mexico		
ELEVATION DF 4222' GR 4214'		DATE COMPILED 7-24-84	DRILLING STARTED 7-10-64	DRILLING COMPLETED 7-21-64	
DRILLING SUMMARY					

Logs Available: Micro Resistivity, Collar Locator, Temperature, Sonic, Tracer, Gamma Ray

MUD PROGRAM

INTERVAL	TYPE MUD	WEIGHT	VIS	W. L.	REMARKS
0-400'	Native (fresh)				
400-4851'	Native (salt)				

CASING RECORD

	SIZE	WT	HOLE SIZE	DEPTH	SX CMT	REMARKS
SURFACE	8 5/8"	24#	12 1/4"	404'	240 0	
INTERMEDIATE						
OIL STRING	4 1/2"	9.5#	7 7/8"	4851'	200	Top 4126 C.C.C.
LINER						
TUBING	2 3/8"	4.7#		4538'		J-55

DRILLSTEM TESTS

NO.	INTERVAL	RECOVERY	B.H.F.P.	S.I.B. H.P.	HYD
		NO DST			

WELL RECORD (CONTINUED)

GEOLOGICAL MARKERS - TOPS

FORMATIONS	DEPTH	SUB-SEA	FORMATIONS	DEPTH	SUB-SEA
NA					

SURVEYS

RUN NO.	INTERVAL	RUN NO.	INTERVAL

PAY SECTION

NUMBER PERFORATIONS PER FOOT	INTERVAL	STIMULATION	INTERVAL	AMOUNT
2 spf	4724-47' 4664-4704'	15% NEFE	both intervals	2000 gal
OPEN HOLE SIZE				
none				

TESTS

	P.F. SWB.	HOURS	OIL	WATER	G.O.R.	CHOKE	FLOWING PRESSURES		SHUT-IN PRESSURES	
							TP	CP	TP	CP
NATURAL										
(8-22-80) AFTER STIM	Pmp	24	1	67	NA	Pmp	NA	NA	NA	NA
(8-3-64) POTENTIAL	Flowing	24	165	0	548	20/64	120	0	NA	NA

COMPLETIONS AND REMARKS

- 7-64: Perf 4724-47' (2 spf) Stim. w/2000 gal acid, 20000 gal oil, 280000# sand & 4000# glass beads. Potential (flowing) 165 BOx OBOx 90 MCFPD.
- 1-30-68: Perf 4664-4704' (2 spf) Acd. samew/3000 gal 20% BWO: Pmp 45 BOx 19 BWPD: AWO: Pmp 100 BOx 75 BWPD.
- 8-22-80: Acd. each zone w/2000 gal 15% NEFE acid (stages sep. by 200# rock salt & 200# paraformaldehyde) AWO: 1 BOx 67 BWPD (Pmp)
- 1-13-82: Acd w/2000 gal 15% NEFE HCL. 200 gal MUSOLA. converted to injection IAWO: 620 BWPD @ 300 psi.

RECEIVED
 OCT 30 1981
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TOTAL COST	INTANGIBLES	PER FOOT
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AMERICAN PETROLEUM COMPANY OF TEXAS

ENGINEERING CHART

Horton Federal Unit # 9

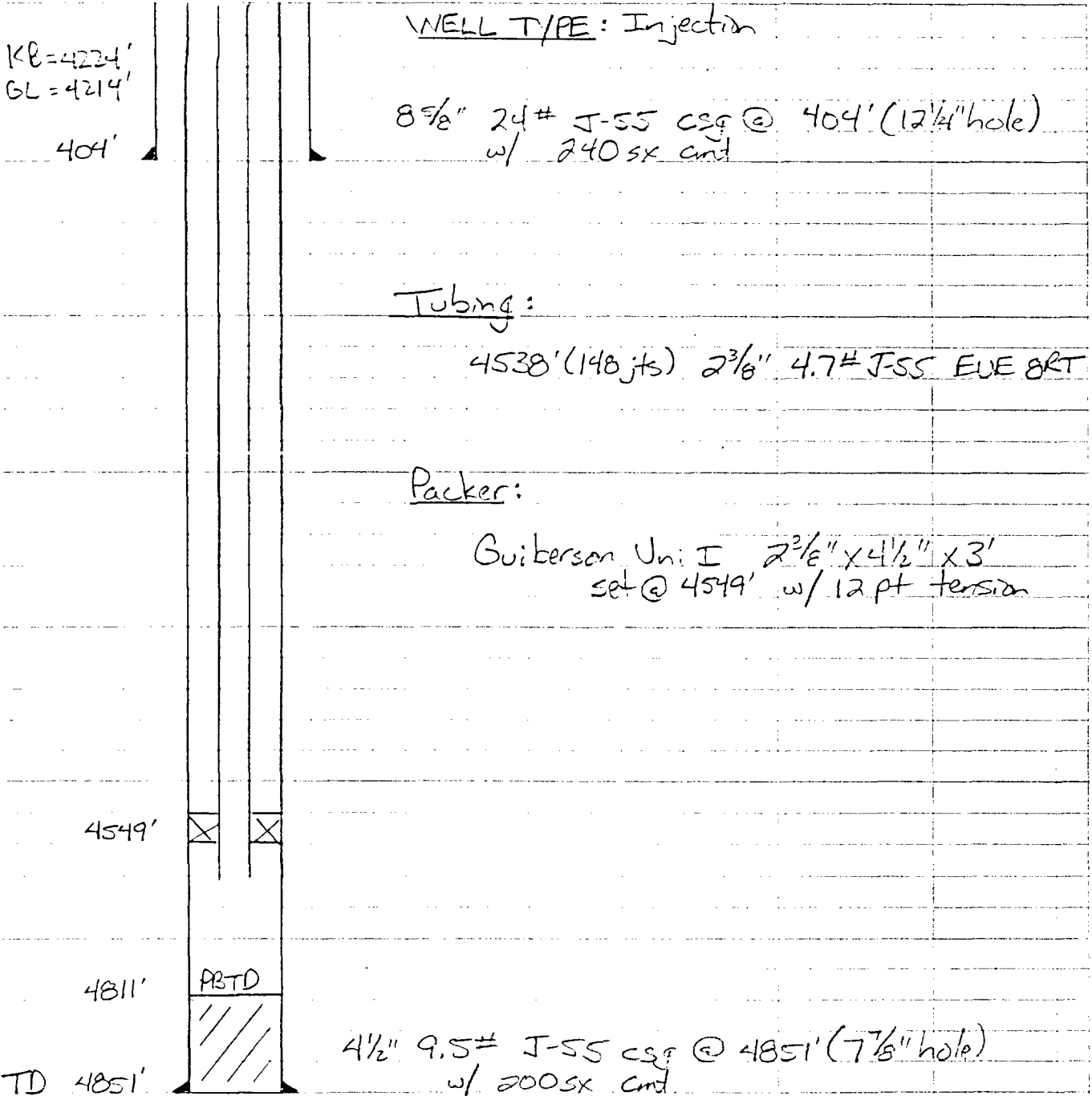
Roosevelt County, New Mexico

SHEET NO. _____ OF _____

FILE _____

DATE 7-24-84

BY JON DAVID CARIN



Perfs (2spf):

ZONE A: 4664 - 4704'
ZONE B: 4724 - 477'

Stimulation (1-13-82):

Acidized w/ 2000 gal 15%
NEFE HCL & 200 gal
MUSOL A.

WELL RECORD FINA-1765

COMPANY American Petrofina Co. of Texas			LEASE AND WELL NUMBER Horton Federal Unit #10		
FIELD Milnesand (San Andres)		CONTRACTOR Cactus Drilling Corp.		TOTAL DEPTH 4766'	FEET 4764'
LOCATION 330' FNL & 921.3 FEL section 30 (Unit A. NE/4 NE/4)					
SURVEY 30-8-35 NMPM			COUNTY Roosevelt		STATE New Mexico
ELEVATION DF 4224' GR 4212'			DATE COMPILED 7-24-84	DRILLING STARTED 7-23-64	DRILLING COMPLETED 8-2-64
DRILLING SUMMARY					

Logs Available: Gamma Ray-Neutron

MUD PROGRAM

INTERVAL	TYPE MUD	WEIGHT	VIS	W. L.	REMARKS
0-400'	Native (fresh)				
400-TD	Native (salt)				

CASING RECORD

	SIZE	WT	HOLE SIZE	DEPTH	SX CMT	REMARKS
SURFACE	8 5/8"	24#	12 1/4"	405'	250	
INTERMEDIATE						
OIL STRING	4 1/2"	9.5#	7 7/8"	4764'	250	T/cmt @ 3700'
LINER						
TUBING	2 7/8"	6.5#		4667'		J-55

DRILLSTEM TESTS

NO.	INTERVAL	RECOVERY	B.H.F.P.	S.I.B. H.P.	HYD
		NO DST			

WELL RECORD (CONTINUED)

GEOLOGICAL MARKERS - TOPS

FORMATIONS	DEPTH	SUB-SEA	FORMATIONS	DEPTH	SUB-SEA
NA					

SURVEYS

RUN NO.	INTERVAL	RUN NO.	INTERVAL

PAY SECTION

NUMBER PERFORATIONS PER FOOT	INTERVAL	STIMULATION	INTERVAL	AMOUNT
2 spf	4644-84', 87', 93-98' 4718-41'	15% NEFE	same (3 stages)	5000 gal
OPEN HOLE SIZE				

TESTS

	P.F. SWB.	HOURS	OIL	WATER	G.O.R.	CHOKE	FLOWING PRESSURES		SHUT-IN PRESSURES	
							TP	CP	TP	CP
NATURAL										
(7-11-80) AFTER STIM	Pmp	24	6	438	NA	Pmp	NA	NA	NA	NA
(8-11-64) POTENTIAL	Flowing	24	79	17	1100	16/64	270	300	NA	NA

COMPLETIONS AND REMARKS

- 8-64: Perf 4718-41' (2 spf) Stim w/750 gal acid. Potential (flowing) @ 79 BOx17 BLW x 87 MCFPD.
- 10-6-72: Perf 4644-84', 4687', 4693-98' (2 spf) Acid. w/2000 gal 15% LSTNE. BWO: Pmp 21 BOx114 BWPD AWO: Pmp 36 BOx207BWPD.
- 7-11-80: Acid. w/5000 gal 15% NEFE, 37000# CO₂ (3 stages) separated by 1000 gal 20# gelled brine. 350# rx salt & 350# paraformaldehyde. AWO: Pmp 6 BOx 438 BWPD

TOTAL CGLT	INTANGIBLES	TANGIBLES	PER FOOT



AMERICAN PETROLEUM COMPANY OF TEXAS

ENGINEERING CHART

Horton Federal Unit #10

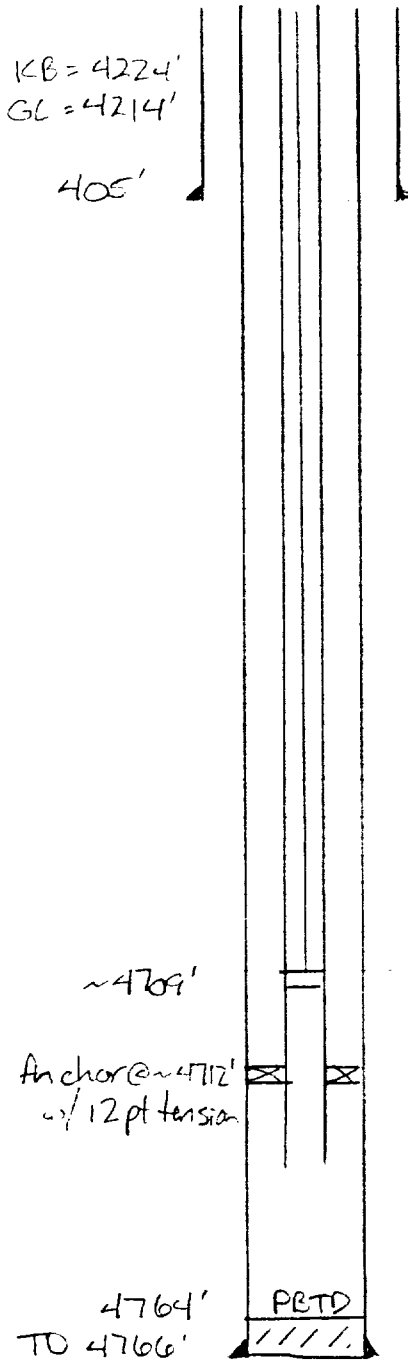
Roosevelt County, New Mexico

SHEET NO. _____ OF _____

FILE _____

DATE 7-24-84

BY JON DAVID CAERW



WELL TYPE: Production

8 5/8" 24# J-55 csg @ 405' (1 1/4" hole)
w/ 250 s.c.c.

Rods:

2200' 7/8" x 25' Plain (88 jts)
2500' 3/4" x 25' Plain (100 jts)

Tubing Pump:

Plunger: 2 1/4" x 3' 30 ring Flexite
Standing valve
set @ ~4709'

Tubing (anchored):

4677'	(152 jts)	2 7/8" 6.5# J-55 EUE BRT
24'		2 7/8" x 24' working barrel w/ seating shoe
3'		2 3/8" x 4 1/2" Guiberson 30000# shear anchor w/ 2 7/8" & 2 1/8" collars.
6'		2 3/8" Sub

4 1/2" 9.5# J-55 csg @ 4764' (7 1/8" hole)
w/ 250 s.c.c.
Top of cement @ 4700'

Perfs (2 sep):

ZONE A: 4644-84'
ZONE B: 4687'
ZONE C: 4693-98'
ZONE D: 4718-41'

Stimulation (7-11-80):

Acidized all zones w/ 5000 gal
15% NEFE, 37000# CO₂ sep
by 1000 gal 20# gelled brine, 350#
rx salt, & 350# paraformaldehyde

WELL RECORD FINA 176F

COMPANY American Petrofina Co. of Texas			LEASE AND WELL NUMBER Horton Federal Unit #11		
FIELD Milnesand (San Andres)		CONTRACTOR Cactus Drilling Corp.		TOTAL DEPTH 4766'	PETE 4764'
LOCATION 1650' FNL & 923.8 FEL of section 30 (Unit H. SE/4 NE/4)					
SURVEY 30-8-35 NMPM			COUNTY Roosevelt		STATE New Mexico
ELEVATION DF 4220' GR 4212'		DATE COMPILED 7-24-84	DRILLING STARTED 8-17-64	DRILLING COMPLETED 8-27-64	
DRILLING SUMMARY					

Logs Available: Tracer. Temperature

MUD PROGRAM

INTERVAL	TYPE MUD	WEIGHT	VIS	W. L.	REMARKS
NA					

CASING RECORD

	SIZE	WT	HOLE SIZE	DEPTH	SX CMT	REMARKS
SURFACE	8 5/8"	24#	12 1/4"	410'	250	
INTERMEDIATE						
OIL STRING	4 1/2"	9.5#	7 7/8"	4766'	250	
LINER						
TUBING	2 3/8"	Fiberglass tubing		4595'		

DRILLSTEM TESTS

NO.	INTERVAL	RECOVERY	B.H.F.P.	S.I.B. H.P.	HYD
		NO DST			

WELL RECORD (CONTINUED)

GEOLOGICAL MARKERS - TOPS

FORMATIONS	DEPTH	SUB-SEA	FORMATIONS	DEPTH	SUB-SEA
Anhydrite	2198'	+2014'			
San Andres	3910'	+302'			

SURVEYS

RUN NO.	INTERVAL	RUN NO.	INTERVAL

PAY SECTION

NUMBER PERFORATIONS PER FOOT	INTERVAL	STIMULATION	INTERVAL	AMOUNT
2 spf	4664-4700' 4718-38'	NEFE HCL	both intervals	4000 gal.
OPEN HOLE SIZE				
none				

TESTS

	P.F. SWB.	HOURS	OIL	WATER	G.O.R.	CHOKE	FLOWING PRESSURES		SHUT-IN PRESSURES	
							TP	CP	TP	CP
NATURAL										
(11-30-67) AFTER STIM	Pmp	24	56	9	NA	Pmp	NA	NA	NA	NA
(8-30-64) POTENTIAL	flowing	24	91	0	987	18/64	225	0	NA	NA

COMPLETIONS AND REMARKS

- 8-28-64: Perf 4718-38 (2 spf) Acd w/750 gal acid. Pot test (Flowing) 91 B0x0BW x 90 MCFPD on 18/64" choke.
- 11-30-67: Perf 4664-4700' (2 spf) Acd. w/3000 gal 20% & 1500 gal trtd. water BW0: Pmp 50 B0x6BW; AW0: Pmp 56 B0x9 BLWPD.
- 3-29-74: Acd. perms w/2000 gal 15% acid. converted to injection
- 5-6-77: Acd 4664-4700' w/2000 gal 15% NE acid.
- 8-28-79: Acd both perf sets w/2000 gal 15% NE acid.
- 11-28-79: Acd. well w/4000 gal NEFE HCL.

TOTAL COST	INTANGIBLES	TANGIBLES	PER FOOT



AMERICAN PETRO NA COMPANY OF TEXAS

ENGINEERING CHART

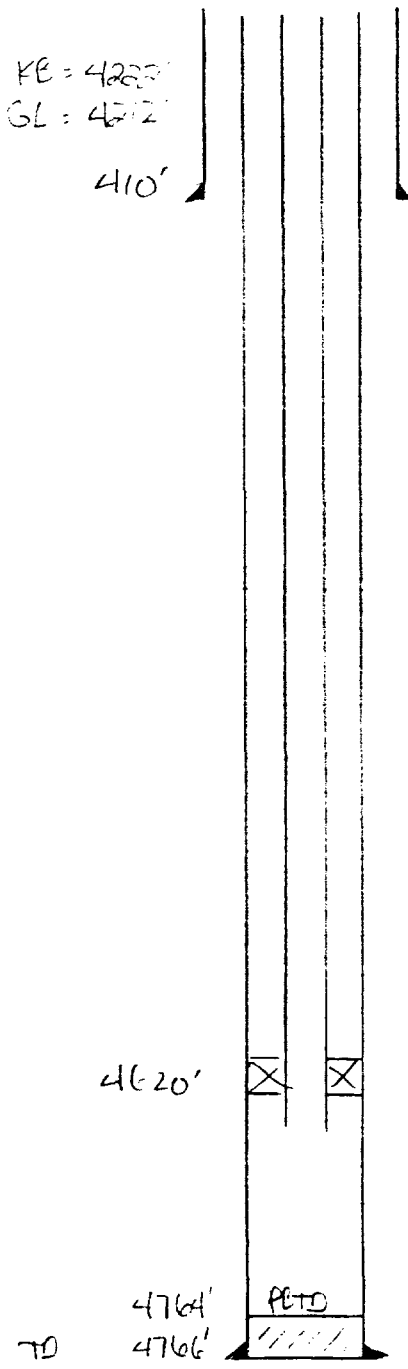
Horton Federal Unit #11
Roosevelt County, New Mexico

SHEET NO _____ OF _____

FILE _____

DATE 7-24-84

BY JON DAVID CARON



WELL TYPE: Injectible

8 5/8" 24# J-55 csg @ 4110' (12 1/4" hole)
w/ 250 sx cmt (circulated)

Tubing:

~ 4595' 2 3/8" OD fiberglass tbg.

Packer:

Baker Lock Set Tension 2 3/8" x 4 1/2" x 3'
set @ 4620' w/ 5000 #

4 1/2" 9.5# J-55 csg @ 4766' (7 7/8" hole)
w/ 250 sx cmt.

Perfs (2 spf):

ZONE A: 4664-4700'
ZONE B: 4718-38'

Stimulation (11-28-79):

Acidized well w/ 4000 gal
NEFE HCL acid

OPERATOR'S COPY

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other water injector

2. NAME OF OPERATOR
Fina Oil and Chemical Company

3. ADDRESS OF OPERATOR
P. O. Box 2990 Midland, TX 79702

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
 AT SURFACE: 1650 FNL, 924 FEL, Unit H,
 AT TOP PROD. INTERVAL: Sec. 30
 AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input checked="" type="checkbox"/>
(other)			

5. LEASE <u>NM 0145685</u>	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
7. UNIT AGREEMENT NAME	
8. FARM OR LEASE NAME <u>Horton Federal</u>	
9. WELL NO. <u>11</u>	
10. FIELD OR WILDCAT NAME <u>Milnesand San Andres</u>	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <u>30 - 8S - 35E, NMPM</u>	
12. COUNTY OR PARISH <u>Roosevelt</u>	13. STATE <u>NM</u>
14. API NO.	
15. ELEVATIONS (SHOW DF, KDB, AND WD) <u>4224 KDB</u>	

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

7/26/85 Set cement retainer in 4-1/2" casing @ 4170'. Pumped a total of 50 sx (11 bbls) Class "C" w/3% CaCl2 under retainer leaving 35' equivalent on top of retainer. Set CIBP @ 2380'. Pumped 80 sx (19 bbls) Class "C" w/3% CaCl2 leaving cement from 2372' to 2100' inside and outside 4-1/2" casing. Perforated 4-1/2" casing w/2 jet shots @ 470'. Pumped 235 sx (55 bbls) Class "C" neat leaving cement from 470' to surface inside and outside 4-1/2" casing. 4-1/2" casing stub 4' in length was cemented over the well and a steel plate was welded on top of the stub.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Charles M. Anshel TITLE Pet. Engr. III DATE 2-19-86

	<p>APPROVED (This space for Federal or State office use)</p> <p>PETER W. CHESTER</p>	
APPROVED BY	TITLE	DATE
CONDITIONS OF APPROVAL, IF ANY:		
<p>FEB 28 1986</p> <p><i>Peter W. Chester</i></p> <p>BUREAU OF LAND MANAGEMENT</p> <p>SUBSURFACE RESOURCE AREA</p>		<p>SUBJECT TO LIKE APPROVAL BY STATE</p>

WELL RECORD FINA-1768

COMPANY American Petrofina Co. of Texas			LEASE AND WELL NUMBER Horton Federal Unit #7		
FIELD Milnesand (San Andres)		CONTRACTOR Cactus Drilling Corp.		TOTAL DEPTH 4732'	PBTD 4732'
LOCATION 330' FNL & 2241' FEL of section 30 T-8-S. R-35-E.					
SURVEY 30-8-35 NMPM			COUNTY Roosevelt		STATE New Mexico
ELEVATION DF 4224 GR 4216		DATE COMPILED 7-23-84		DRILLING STARTED 6-19-64	DRILLING COMPLETED 6-28-64

DRILLING SUMMARY

Logs Available: Tracer, Temperature, Gamma Ray, Neutron, Sonic

MUD PROGRAM

INTERVAL	TYPE MUD	WEIGHT	VIS	W. L.	REMARKS
NA					

CASING RECORD

	SIZE	WT	HOLE SIZE	DEPTH	SX CMT	REMARKS
SURFACE	8 5/8"	24#	14 1/4"	412'	225	
INTERMEDIATE					<i>dw</i>	
OIL STRING	4 1/2"	9.5#	7 7/8"	4696'	200	
LINER						
TUBING	2 3/8"	4.7#		4520'		J-55

DRILLSTEM TESTS

NO.	INTERVAL	RECOVERY	B.H.F.P.	S.I.B. H.P.	HYD
		NO DST			

WELL RECORD (CONTINUED)

GEOLOGICAL MARKERS - TOPS

FORMATIONS	DEPTH	SUB-SEA	FORMATIONS	DEPTH	SUB-SEA
Anhydrite	2194'	+2030'			
San Andres	3892'	+332'			

SURVEYS

RUN NO.	INTERVAL	RUN NO.	INTERVAL

PAY SECTION

NUMBER PERFORATIONS PER FOOT	INTERVAL	STIMULATION	INTERVAL	AMOUNT
2 spf	4674-88' 4605-26'	15% NEFE HCL	both zones	3000 gal
OPEN HOLE SIZE			+	
3 7/8"	4696-4732'	15% NEFE HCL	open hole	3000 gal

TESTS

	P.F. SWB.	HOURS	OIL	WATER	G.O.R.	CHOKE	FLOWING PRESSURES		SHUT-IN PRESSURES	
							TP	CP	TP	CP
NATURAL										
(3-11-80) AFTER STIM	Pmp	24	29	182	NA	NA	NA	NA	NA	NA
(7-3-64) POTENTIAL	Flow	24	58	0	NA	NA	NA	NA	NA	NA

COMPLETIONS AND REMARKS

7-3-64: Perf @ 4674-88' (2 spf(stim w/500 gal acid, 20000 gal lse crude. 20000# sand & 4000 glass beads. PT flowed 58 BOx0 BW x 107 MCFPD.

10-17-68: Deepened from 4696-4732' (3 7/8" hole) Acd w/5000 gal 20% LSTNE. BWO: Pmp 29 BOx 8 BWPD; AWO: Pmp 89 Bo. x7 BWPD.

5-4-78: Pumped 220 g Wellaid 828 in perf 4674'-88' BWO 92/187
 12-5-79: Perf @ 4605-26 (2 spf) perfs acd w/7000 gal 15% NEFE HCL AWO 67/273
 1-15-80: Perf @ 4636-42 ; 50-74; 88-93
 3-11-80: Pmp 29 BOx 182 BW

1-13-82: Acd w/3000 gal 15% NEFE HCL & 300 gal MUSOL A in 2 stages IAWO: 620 BWPD @ 300 psi converted to injection.

TOTAL COST	INTANGIBLES	TANGIBLES	PER FOOT



AMERICAN PETROLEUM COMPANY OF TEXAS

ENGINEERING CHART

Horton Federal Unit # 7

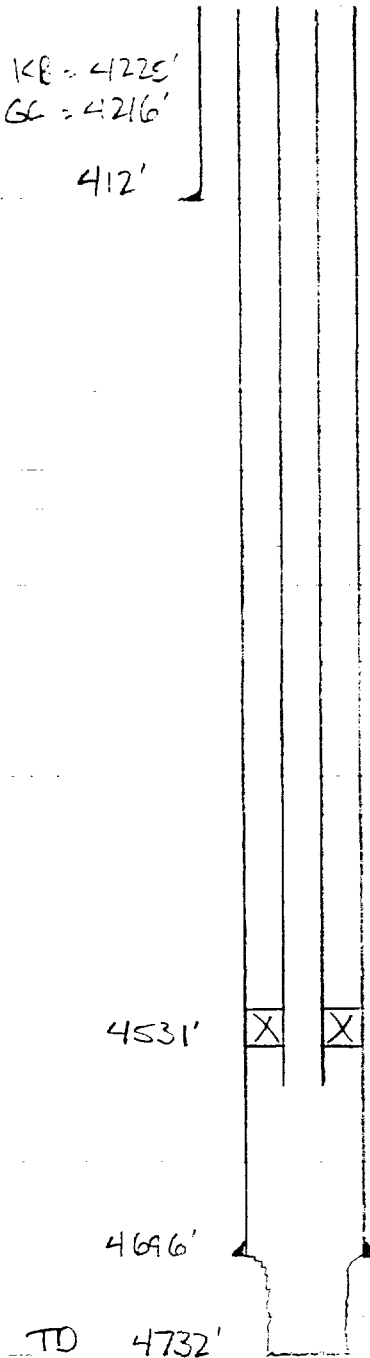
Roosevelt County, New Mexico

SHEET NO _____ OF _____

FILE _____

DATE 7-23-84

BY JIM DAVID CARON



WELL TYPE : Injectia

8 7/8" 2 1/2# J-55 csg @ 412' (12 1/4" hole)
w/ 225 sx cmt

Tubing :

4520' (1418 jts) 2 3/8" 4.7# J-55 EUE BRT

Packer :

Guiberson Uni I 2 3/8" x 4 1/2" x 3'
set @ 4531' w/ 14 pt tension

4 1/2" 9.5# J-55 csg @ 4696' (7 7/8" hole)
w/ 200 sx cmt

open hole 4696-4732'
(3 7/8" bit)

Completion Interval :

ZONE A: 4674-88' } 2 spf
ZONE B: 4605-26' }
open hole: 4696-4732'

Stimulation (1-13-82) :

Perfs in open hole acid w/
3000 gal 15% NEFE HCL

WELL RECORD FINA-1768

COMPANY American Petrofina Co. of Texas			LEASE AND WELL NUMBER Horotn Federal Unit #5		
FIELD Milnesand (San Andres)		CONTRACTOR Cactus Drilling Corp.		TOTAL DEPTH 4738'	PBTD 4738'
LOCATION 1650' FNL & 2244' FEL of section 30 (Unit G, SW/4 NE/4)					
SURVEY 30-8-35 NMPM			COUNTY Roosevelt		STATE New Mexico
ELEVATION DF 4222 GR 4212		DATE COMPILED 7-23-84		DRILLING STARTED 5-28-64	DRILLING COMPLETED 6-7-64
DRILLING SUMMARY					

Logs Available: Collar Locator, Gamma Ray, Temperature, Sonic, Gamma Ray-Neutron

MUD PROGRAM

INTERVAL	TYPE MUD	WEIGHT	VIS	W. L.	REMARKS
NA					

CASING RECORD

	SIZE	WT	HOLE SIZE	DEPTH	SX CMT	REMARKS
SURFACE	8 5/8"	24#	11"	423'	200	
INTERMEDIATE					0 ✓	
OIL STRING	4 1/2"	9.5#	7 7/8"	4686'	200	
LINER						
TUBING	2 7/8"	6.4"		4667'		J-55

DRILLSTEM TESTS

NO.	INTERVAL	RECOVERY	B.H.F.P.	S.I.B. H.P.	HYD
		NO DST			

WELL RECORD (CONTINUED)

GEOLOGICAL MARKERS - TOPS

FORMATIONS	DEPTH	SUB-SEA	FORMATIONS	DEPTH	SUB-SEA
Anhydrite	2195'	+2019'			
San Andres	3902'	+312'			

SURVEYS

RUN NO.	INTERVAL	RUN NO.	INTERVAL

PAY SECTION

NUMBER PERFORATIONS PER FOOT	INTERVAL	STIMULATION	INTERVAL	AMOUNT
2 spf	4656-74' 4675-85'	15% NE acid	4675-85'	7000 gal
OPEN HOLE SIZE	4685-4738'	15% NE acid	4685-4738'	7000 gal

TESTS

	P.F. SWB.	HOURS	OIL	WATER	G.O.R.	CHOKE	FLOWING PRESSURES		SHUT-IN PRESSURES	
							TP	CP	TP	CP
NATURAL										
(10-24-83) AFTER STIM	Pmp	24	72	624	NA	NA	NA	NA	NA	NA
(6-64) POTENTIAL	Pmp	24	98	4	575	Pmp	NA	NA	NA	NA

COMPLETIONS AND REMARKS

- 6-7-64: Perf 4656-74' (2 spf) stim w/500 gal acid, 20000 gal oil, 13000# sand, & 2000# glass beads. Potential (pmp) 98 BO x 4 BW
- 1-18-80: Deepened well to 4738'. Perf 4675-85' (2 spf) Acid int w/7000 gal 15% NE acid & 300# moth balls. AWO: 28 BO x 212 BWPD (Pmp)
- 10-24-83: Acid w/2500 gal 15% LST NE HCL acid, 5 bbl gelled brine, 150# rock salt, & 100 mesh salt. After 12 days 24 hr test showed: 72 BO x 624 BWPD.

RECEIVED
 OCT 30 1987
 OGD
 HOBBS OFFICE

TOTAL COST	INTANGIBLES	TANGIBLES	PER FOOT



AMERICAN PETROLEUM COMPANY OF TEXAS

ENGINEERING CHART

Horton Federal Unit # 5

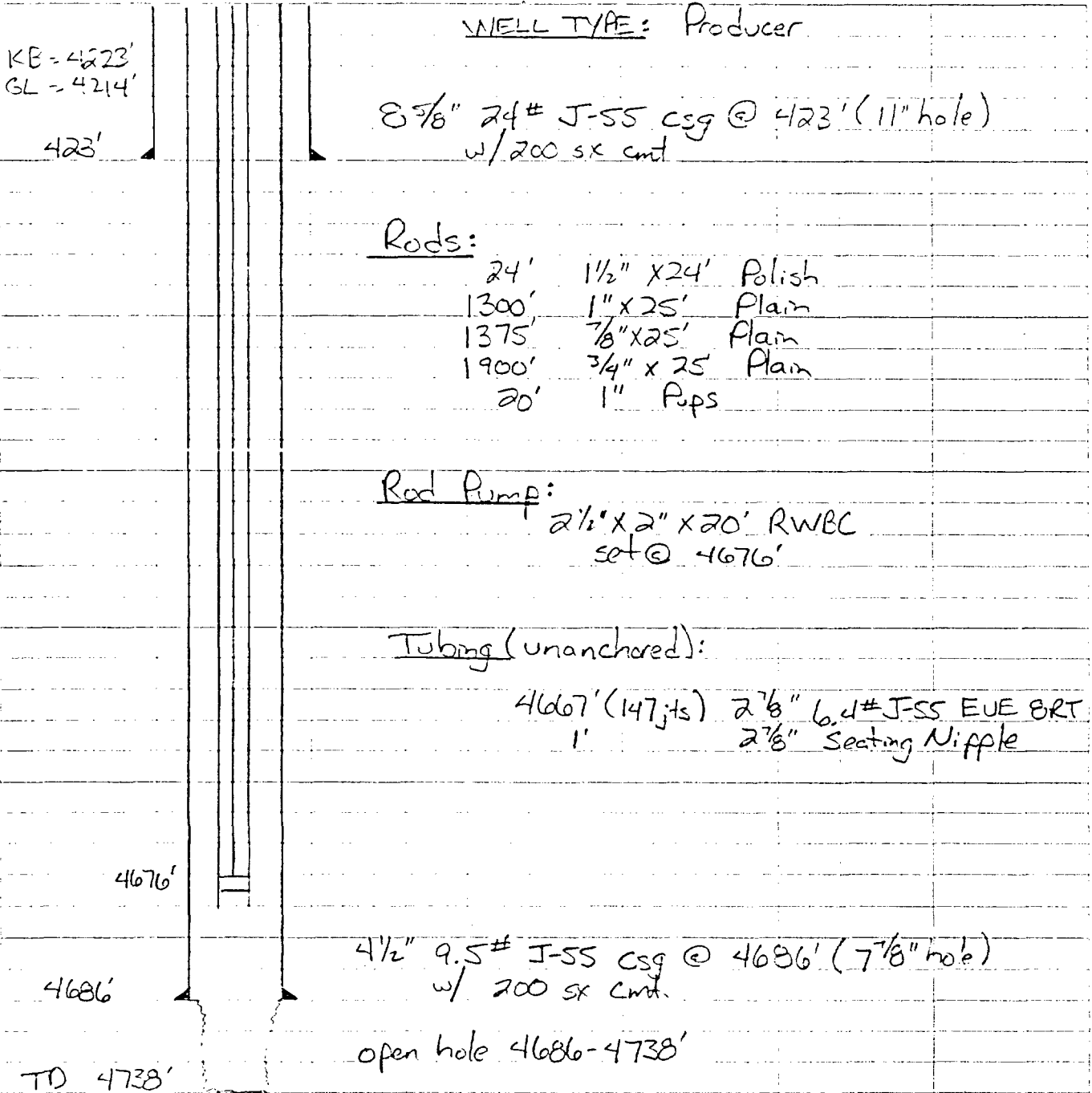
Roosevelt County, New Mexico

SHEET NO. _____ OF _____

FILE _____

DATE 7-23-84

BY JON DAVEC CARON



Completion Intervals:

ZONE A: 4656-74'
 ZONE B: 4675-85'
 open hole: 4685-4738'

Stimulation (10-24-83):

Acidized w/ 2500 gal 15%
 LST NE HCL acid, 560'
 gelled brine, 150# rock salt

WELL RECORD FINA-1768

COMPANY American Petrofina Co. of Texas			LEASE AND WELL NUMBER Horton Federal Unit #4		
FIELD Milnesand (San Andres)		CONTRACTOR Cactus Drilling Corp.		TOTAL DEPTH 4741'	PBTD 4741'
LOCATION 1650' FNL & 1650' FWL of section 30 (Unit F, SE/4 NW/4)					
SURVEY 30-8-35 NMPM			COUNTY Roosevelt		STATE New Mexico
ELEVATION DF 4230' GR 4220'		DATE COMPILED 7-23-84	DRILLING STARTED 4-27-64		DRILLING COMPLETED 5-5-64

DRILLING SUMMARY

Logs Available: Tracer, Temperature

MUD PROGRAM

INTERVAL	TYPE MUD	WEIGHT	VIS	W. L.	REMARKS
NA					

CASING RECORD

	SIZE	WT	HOLE SIZE	DEPTH	SX CMT	REMARKS
SURFACE	8 5/8"	24#	11"	397'	200	OK
INTERMEDIATE						
OIL STRING	4 1/2"	10.5#	7 7/8"	4690'	200	
LINER						
TUBING	2 3/8"	4.7#		4600'		J-55

DRILLSTEM TESTS

NO.	INTERVAL	RECOVERY	B.H.F.P.	S.I.B. H.P.	HYD
		NO DST			

WELL RECORD (CONTINUED)

GEOLOGICAL MARKERS - TOPS

FORMATIONS	DEPTH	SUB-SEA	FORMATIONS	DEPTH	SUB-SEA
San Andres	3950'	+270'			

SURVEYS

RUN NO.	INTERVAL	RUN NO.	INTERVAL

PAY SECTION

NUMBER PERFORATIONS PER FOOT	INTERVAL	STIMULATION	INTERVAL	AMOUNT
2 spf	4657-71' 4671-81'	15% NEFE	both intervals	3000 gal
OPEN HOLE SIZE	4690-4741'	15% NE HCL	4681-741'	3000 gal

TESTS

	P.F. SWB.	HOURS	OIL	WATER	G.O.R.	CHOKE	FLOWING PRESSURES		SHUT-IN PRESSURES	
							TP	CP	TP	CP
NATURAL										
AFTER STIM										
(5-24-64) POTENTIAL	flow & pump	24	115	5	590	22/64	120	600	NA	NA

COMPLETIONS AND REMARKS

- 5-64: Perf @ 4657-71' (2 spf) Frac w/500 gal acid, 20000 gal oil x 20000# sand & 4000# glass beads.
- 5-24-64: Potential 115 Bo x 5 BW x 7 MCF on 22/64 choke & pump.
- 2-23-73: washed sand out (4665-81') acd. w/1000 gal acid. BWO: No fluid prod.; AWO: 8 BO x 19 BWPD
- 3-29-74: Acd. w/2000 gal 15% Acid. converted to injection
- 5-6-77: Acd perfs w/2000 gal 15% NE Acid.
- 8-29-79: Acd w/2000 gal 15% NE
- 6-5-80: Do to 4741' Perf @ 4671-81' Acd/ w/3000 gal 15% NEFE
- 4-7-83: Acd 4681-741' w/3000 gal 15% NE HCL IPOW: 452 BW @ 601 psi
IAOW: 920 BWPD @ 650 psi.

RECEIVED
 OCT 0 1981
 HOBBS OFFICE

TOTAL COST	INTANGIBLES	TANGIBLES	PER FOOT



AMERICAN PETRO 'NA COMPANY OF TEXAS

ENGINEERING CHART

Horton Federal Unit # 4

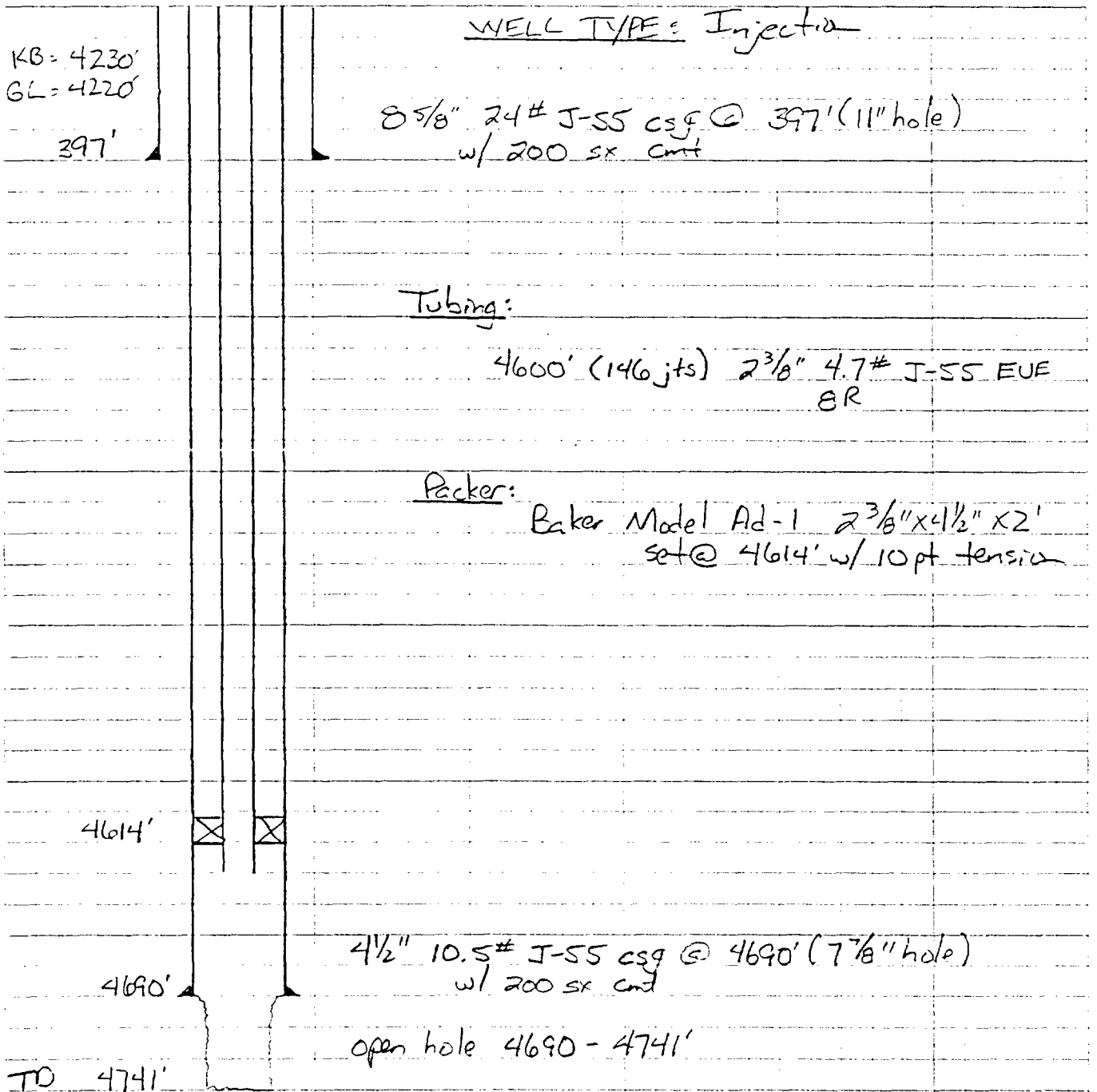
Roosevelt County, New Mexico

SHEET NO. _____ OF _____

FILE _____

DATE 7-23-84

BY Tom Darrow Carrol



Completion Interval:

ZONE A: 4657-71'
ZONE B: 4671-81'
open hole int: 4690-4741'

Stimulation (4-7-83):

Acidized 4681-4741'
w/ 3000 gal 15% NE HCL

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other In-
structions on
reverse side)

Form approved,
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. REVS. Other _____

2. NAME OF OPERATOR
Socony Mobil Oil Company, Inc.

3. ADDRESS OF OPERATOR
P. O. Box 1300, Hobbs, New Mexico 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 660' FSL & 660' FEL, Sec. 19, T-8S, R-35E
At top prod. interval reported below Same
At total depth Same

5. LEASE DESIGNATION AND SERIAL NO.
LC-060978

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Jacobs Federal

9. WELL NO.
8 Now No. 20-P

10. FIELD AND POOL, OR WILDCAT
Milnesand San Andres

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
19-8S-35E

12. COUNTY OR PARISH
Roosevelt

13. STATE
N. Mex.

14. PERMIT NO. _____ DATE ISSUED
11-5-64

15. DATE STUDDED 11-20-64 16. DATE T.D. REACHED 11-29-64 17. DATE COMPL. (Ready to prod.) 12-2-64 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 4224 DF 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 4800 21. PLUG BACK T.D., MD & TVD 4766 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY → 0-4800 ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION: TOP, BOTTOM, NAME (MD AND TVD)*
4658-4738 25. WAS DIRECTIONAL SURVEY MADE
No

26. TYPE ELECTRIC AND OTHER LOGS RUN
Laterolog 2400-4786 - Acoustic GR 368-4786 27. WAS WELL CORED
Yes

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8	24	367	12-1/4	Cem w/350 sx IncorNeat	
4-1/2	9.5	4800	7-7/8	Cem w/1760 sx Incor Neat	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)
4658-4738 - 18 - 1" Jet Holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4658-4738	1000 Gals 15% NE Acid

33. PRODUCTION

DATE FIRST PRODUCTION 12-2-64 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing WELL STATUS (Producing or shut-in) Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS OIL RATIO
12-2-64	24	20/64"	→	172	430	0	250

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
100	---	→	172	430	0	27.9

34. DISTRIBUTION OF GAS (Sold, used for fuel, vented, etc.)
Sold TEST WITNESSED BY
W. A. Mosley

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED J. J. McDaniel TITLE Group Supervisor DATE 12/3/64

*(See Instructions and Spaces for Additional Data on Reverse Side)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

5. LEASE DESIGNATION AND SERIAL NO.

LC-060978

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Jacobs Federal

9. WELL NO.

8 Now No. 25

10. FIELD AND POOL, OR WILDCAT

Milnes and San Andres

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

19-8S-35E

12. COUNTY OR PARISH
Roosevelt

13. STATE
New Mexico

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFT. ELSVR. Other

2. NAME OF OPERATOR
SOCONY MOBIL OIL COMPANY, INC.

3. ADDRESS OF OPERATOR
P. O. Box 1800, Hobbs, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 1980' FEL & 660' FSL, Section 19, T8S, R35E

At top prod. interval reported below Same

At total depth Same

14. PERMIT NO. DATE ISSUED
11-5-64

15. DATE SPUDDED 11-11-64 16. DATE T.D. REACHED 11-24-64 17. DATE COMPL. (Ready to prod.) 12-1-64 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 4227.5 RKB 19. ELEV. CASINGHEAD 4215.7

20. TOTAL DEPTH, MD & TVD 4780 21. PLUG, BACK T.D., MD & TVD 4750 22. IF MULTIPLE COMPL. HOW MANY* --- 23. INTERVALS DRILLED BY ROTARY TOOLS 0-4780 CABLE TOOLS -

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 4667-4733 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN Laterolog 2400 - 4780 Acoustic GR - 100 - 4769 27. WAS WELL CORED No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOSE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24	368	12-1/4	Cem. w/300 sx. + 2% HAS	
4-1/2"	9.5	4780	7-7/8	Cem. w/1660 sx. + 100 sx. Incor Neat	

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8	4740	

31. PERFORATION RECORD (Interval, size and number) 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4667-4733	500 gals. 15% NE Acid
4667-4733	20,000 Refined oil + 40,000#
	20-40 Sand + 12 Ball Sealers

4667-4733 - 18 1" Jets holes

33.* PRODUCTION

DATE FIRST PRODUCTION 11-29-64 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing - 24/64" ch. WELL STATUS (Producing or shut-in) Producing

DATE OF TEST 12-1-64 HOURS TESTED 24 CHOLE SIZE 24/64" PROD. FOR TEST PERIOD → OIL—BBL. 504 GAS—MCF. 578 WATER—BBL. 24 GAS OIL RATIO 1146

FLOW. TUBING PRESS. 130 CASING PRESSURE 800 CALCULATED 24-HOUR RATE → OIL—BBL. 504 GAS—MCF. 578 WATER—BBL. 24 OIL GRAVITY-API (CORR.) 25.8

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sold TEST WITNESSED BY W. A. Mosley

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED J. J. McDaniel TITLE Group Supervisor DATE 12-2-64

*(See Instructions and Spaces for Additional Data on Reverse Side)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved
Budget Bureau No. 42-R355.5.

5. LEASE DESIGNATION AND SERIAL NO.

N.M. 0145685

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

500 RUSSELL E. HORTON

9. WELL NO.

30

10. FIELD AND POOL OR WILDCAT

MILNESAND SAN ANDRES

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

29-8-35 N.M.P.M

12. COUNTY OR PARISH

ROOSEVELT

13. STATE

N.M.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

b. TYPE OF COMPLETION: NEW WELL WORK OVER LIFT PLUG BACK DIFF. RESVR. Other _____

2. NAME OF OPERATOR
Continental Petroleum Corp.

3. ADDRESS OF OPERATOR
Box 68, Hobbs, N.M.

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface **2310' FSL X 1650' FWL, Sec. 29, (Unit K, 1/4 SW/4)**
At top prod. interval reported below
At total depth

14. PERMIT NO. DATE ISSUED

15. DATE SPUNDED 3-8-65 16. DATE T.D. REACHED 3-17-65 17. DATE COMPL. (Ready to prod.) 3-21-65 18. ELEVATIONS (OF, RKR, RT, GR, ETC.)* 4219' RDB 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 4720' 21. PLUG, BACK T.D., MD & TVD 4719' 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY 0-TD ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 4696'-4716' San Andres 25. WAS DIRECTIONAL SURVEY MADE No

26. TEST ELECTRIC AND OTHER LOGS RUN Gamma Ray-Neutron 27. WAS WELL CORED No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
3 7/8"	24 #	397'	12 1/4"	225 Sx. Circ.	
4 1/2"	9.5 #	4720'	7 7/8"	250 Sx.	

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8"	4717'	

31. PERFORATION RECORD (Interval, size and number) 4696'-4716' w/ 2JSPF

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4696-4716	750 gal. acid

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
3-21-65	Swabbing	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
3-22-65	19	—	→	140	NA	88 BBL	NA

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (COBR.)
—	—	→	177	NA	NA	27°

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
Sold - Sinclair Oil & Gas Co. TEST WITNESSED BY **M.R. Frazier**

35. LIST OF ATTACHMENTS
None

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED **Area Dept** TITLE **Area Dept** DATE **3-22-65**

* (See Instructions and Spaces for Additional Data on Reverse Side)

15675
C-JW 3
C-Alex C.
15675

N. M. OIL CONS. COMMISSION
P. O. BOX 1980
HOBBS, NEW MEXICO 88240

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 47-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other TA Water Injector

2. NAME OF OPERATOR
Fina Oil & Chemical Company

3. ADDRESS OF OPERATOR
P. O. Box 2990 Midland, TX 79702

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 990' FSL, 330' FWL, Unit M,
AT TOP PROD. INTERVAL: Sec 29
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

5. LEASE
NM 0145685

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Horton Federal

9. WELL NO.
31

10. FIELD OR WILDCAT NAME
Milnesand San Andres

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
29-8S-35E, NMPM

12. COUNTY OR PARISH
Roosevelt

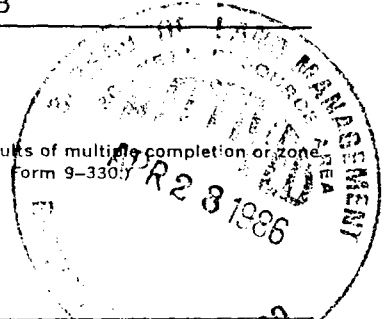
13. STATE
NM

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4221 KDB

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input checked="" type="checkbox"/>
(other)	<input type="checkbox"/>		<input type="checkbox"/>

(NOTE: Report results of multiple completion or zone change on Form 9-330)



17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

4/2/86 Circulated 4-1/2" casing full w/9 lb/gal mud. Stung into cement retainer @ 4535'. Established injection rate of 2 BPM w/1000 psi injection pressure. Mixed and pumped 250 sx (58.8 bbls) Class "C" neat cement below retainer leaving 35' equivalent plug on top of retainer. Perforated 4-1/2" casing @ 2217' w/4 circulation jets. Mixed and pumped 25 sx (6 bbls) Class "C" neat cement and displaced w/9.25 bbls 9 lb/gal mud. Perforated 4-1/2" casing @ 462' w/4 circulation jets. Mixed and pumped 25 sx (6 bbls) Class "C" w/3% CaCl2 and displaced w/2.5 bbls 9 lb/gal mud. Tagged top of cement @ 348'. Mixed and pumped 10 sx (2.3 bbls) Class "C" w/3% CaCl2 as 50' surface plug. P&A well marker was erected.

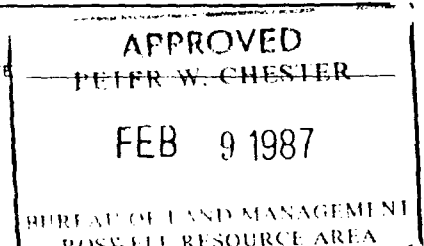
Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Charles M. Tomblin TITLE Sr. Pet. Eng. DATE 4-23-86
Charles M. Tomblin

(This space for Federal or State office use)

APPROVED BY _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY: Approved as lifting of the well bore. Liability under bond is retained until surface restoration is completed.



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER Injection SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 Amoco Production Company

3. ADDRESS OF OPERATOR
 P. O. Box 68, Hobbs, New Mexico 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface 990' FSL X 330' FWL, Sec. 29
 (Unit M, SW/4, SW/4)
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 2 miles south, 3 miles West of Milnesand, NM

10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE
 1920

17. NO. OF ACRES ASSIGNED TO THIS WELL
 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

20. ROTARY OR CABLE TOOLS

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 4222 RDB

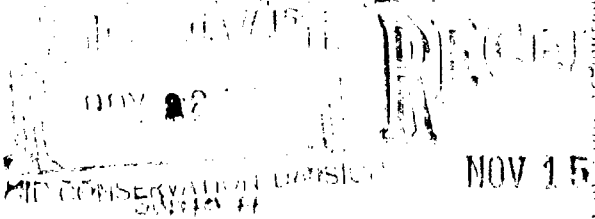
22. APPROX. DATE WORK WILL START*
 12-15-82

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24	412	225 SX
7-7/8"	4-1/2"	9.5	4714	250 SX

Propose to deepen well to 4773' and stimulate in order to increase injectivity and improve sweep pattern. Will use the following procedure:

Pull packer set at 4670'. Drill to 4773' and perforate 4690'-4696', 4700', 4712', 4712'-4714'. Acidize with 3000 gal 15% LSTNE/FE acid with 600# of rock salt in 500 gal gelled brine. Flush with 22 bbl lease water. Swab back load and return to injection.



O+6-MMS,R 1- DMF 1-W. Stafford, Hou 1-Hou

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Mark Freeman TITLE Assist. Admin. Analyst DATE 11-10-82

(This space for Federal or State office use)
 (Orig. Sgd.) GEORGE H. STEWART

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

N. M. OIL CONS. COMMISSION
P. O. BOX 1920
HOBBS, NEW MEXICO 88240

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other TA Water Injector

2. NAME OF OPERATOR
Fina Oil & Chemical Company

3. ADDRESS OF OPERATOR
P. O. Box 2990, Midland, TX 79702

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 990 FSL, 330 FWL, Unit M, Sec
AT TOP PROD. INTERVAL: 29
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

5. LEASE
NM 0145685

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Horton Federal

9. WELL NO.
31

10. FIELD OR WILDCAT NAME
Milnesand San Andres

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
29-8S-35E, NMPM

12. COUNTY OR PARISH
Roosevelt

13. STATE
NM

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4221' KDB

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

PULL OR ALTER CASING

MULTIPLE COMPLETE

CHANGE ZONES

ABANDON*

(other) _____

(NOTE: Report results of multiple completion or zone change per Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

5/7/77 Attempted to pull seal assembly from Baker Model D packer set @ 4670'. Recovered snap latch only. 1/2/85 Attempted to pull Guiberson KVL - 30 packer. Set @ 4556'. Recovered packer mandrell only. Set Arrow wireline set cement retainer @ 4535'.
Propose: Sting into cement retainer and cement below retainer with 250 sx leaving 35' equivalent on top of retainer. Perforating @ 2217' and cementing inside and outside 4 1/2" casing from 2217' to 2117' -or- cutting off and pulling 4 1/2" casing @ 2167' and cementing from 2217' inside 4 1/2" casing to 2117' inside 7 7/8" hole. Perforating @ 462' and cementing inside and outside 4 1/2" casing from 462' to 362' -or- cementing from 462' inside 7 7/8" open hole to 362' inside 8 5/8" surface casing. -cont. on attachment-

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Charles M. Sumbler TITLE Senior Petroleum Engineer DATE 2/21/86

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY: SUBJECT TO LIKE APPROVAL BY STATE

PETER W. CHESTER

FEB 26 1986

BUREAU OF LAND MANAGEMENT
POWER RESOURCES DIVISION

Horton Federal #31

Tag cement plug across surface casing shoe @ 362'.
Cementing 50' surface plug. Cement plugs will be
isolated by and displaced with 9 lb/gal mud. Dry
hole marker will be erected as specified.

PETER W. CHESTER
FEB 26 1986
BUREAU OF LAND MANAGEMENT
ROSWELL RESOURCE AREA

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other In-
structions on
reverse side)

Form approved,
Budget Bureau No. 42 R355.6.

5. LEASE DESIGNATION AND SERIAL NO.

NM 0145685

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

b. TYPE OF COMPLETION:
NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESER. Other _____

2. NAME OF OPERATOR

AMERICAN PETROFINA CO. OF TEXAS

3. ADDRESS OF OPERATOR

Box 2990, Midland, TX 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 990 FNL, 2270 FWL, Sec. 30

At top prod. interval reported below

At total depth

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Horton Federal

9. WELL NO. 35

10. FIELD AND POOL, OR WILDCAT

Milnesand San Andres

11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA

30, T-8-S, R-35-E, NMPM

14. PERMIT NO. DATE ISSUED

12. COUNTY OR PARISH

Roosevelt

13. STATE

New Mexico

15. DATE SPUNDED 16. DATE T.D. REACHED 17. DATE COMPL. (Ready to prod.) 18. ELEVATIONS (DF, HBR, RT, GR, ETC.)* 19. ELEV. CASINGHEAD

10-15-84 10-22-84 2-6-85 4228.8 DF, 4230 KB

20. TOTAL DEPTH, MD & TVD 21. PLUG BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS

4810 4786 0-4810

24. PRODUCING INTERVAL(S), OF THIS COMPLETION TOP, BOTTOM (SAME (MD AND TVD)* 25. WAS DIRECTIONAL SURVEY MADE

4652-4745 San Andres No

26. TYPE ELECTRIC AND OTHER LOGS RUN 27. WAS WELL CORED

LDT-CNL-NGT-DLL, BHC, EPT No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8	24	446	12-1/4	300 sx. C1.C	-
5-1/2	15.5	4809	7-7/8	1350 sx. HLC, 200 sx. C1.C	-

29. LINER RECORD None 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8	4697	

31. PERFORATION RECORD (Interval, size and number) 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

4652-4745 : 22 shots

ACCEPTED FOR RECORD
PETER W. CHESTER

APR 10 1985

DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED

4652-4745 3160 gal. 20% NEFE

33.* DATE FIRST PRODUCTION PRODUCTION METHOD (If rotary, give bit size and type of pump) WELL STATUS (Producing or shut in)

2-14-85 Pumping - 2" Insert Producing

DATE OF TEST HOURS TESTED CHORE SIZE PROD'N. FOR TEST PERIOD OIL-BBL. GAS-MCF. WATER-BBL. GAS-OIL RATIO

2-27-85 24 2" 17 (1) 245

FLOW. TUBING PRESS. CASING PRESSURE CALCULATED 24-HOUR RATE OIL-BBL. GAS-MCF. WATER-BBL. OIL GRAVITY-API (CORR.)

17 (1) 245 27.1

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY

Curtis Allen

35. LIST OF ATTACHMENTS

2 log copies Neutron log, 2 deviation surveys.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED J. C. Chapman TITLE Assistant Dist. Mgr. of Prod. DATE 3-01-85