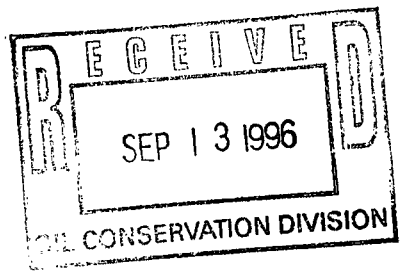
NSL 10/3/96



September 11, 1996

Mr. Michael Stogner
State of New Mexico
Oil Conservation Division
PO Box 2088
Santa Fe, New Mexico 87504-2088

RE: Re-entry of Tenneco Hagerty Federal No. 1
SW/4 SW/4 Section 7, Township 16 South, Range 30 East
Eddy County, New Mexico

Dear Mr. Stogner,

Fina Oil and Chemical Company proposes a re-entry of the General American Oil Company of Texas' Tenneco Hagerty Federal No. 1, located specifically at 656' FSL and 649' FWL, Section 7, Township 16 South, Range 30 East, Eddy County, New Mexico. Form C-102 is attached. The primary zone of interest is the Lower Morrow sandstone from 10,554' to 10,568'. The subject well was plugged and abandoned as a dry hole in 1970. The subject well is an unorthodox wildcat gas well location as per Rule 104 B. (I) (a).

Five drill stem tests were performed during drilling of the subject well. The most encouraging test was the Morrow sandstone from 10,450' to 10,564'. It had gas to surface in 45 minutes during the first flow period. The initial period flowing pressure was 153 psi, followed by a second period flowing pressure of 166 psi, and a final period flowing pressure of 205 psi. The initial period shut-in pressure was 4420 psi, followed by a second period shut-in pressure of 4329 psi, and a final shut-in pressure of 4446 psi. Rate was measured at 245 to 300 MCFD. Sample recovery was 600' of gas and condensate cut mud with no water.

Fina is holder of record title to all acreage in Section 7 except from 2744' to 2788' in the unitized Premier Sand of the Southwest Henshaw Premier Unit, operated by Kay Jay Oil Company.

Please find enclosed our application in triplicate for administrative approval of this unorthodox location. Pertinent and supporting geologic data and discussion have also been included for your review and consideration. A copy of the approved Form 3160-3 APD is also included. Waiver of objection letters have been sent to all offset operators via certified mail.

If this application is lacking or deficient in any manner, please notify either myself or Mary Ann Martinez at (915) 688-0600 at your earliest possible convenience. Your review and approval of this application is greatly appreciated.

Sincerely,

Phil Miller
Senior Staff Engineer

c: Mary Ann Martinez
File

Fina Oil and Chemical Company
6 Desta Drive, Suite 4400 • Midland, TX 79705
P.O. Box 2990 • Midland, TX 79702 • (915) 688-0600

September 11, 1996

State of New Mexico
Oil Conservation Division
PO Box 2088
Santa Fe, New Mexico 87504-2088

RE: Re-entry of Tenneco Hagerty Federal No. 1
Unorthodox Location (Rule 104 B. (I)(a))
SW/4 SW/4 Section 7, Township 16 South, Range 30 East
Eddy County, New Mexico

Gentlemen:

Notice of application of the subject well was sent Wednesday, September 11, 1996, via certified mail to each of the offset operators listed below.

Armstrong Energy Corporation
PO Box 1973
Roswell, New Mexico 88201-1970

Kay Jay Oil Company
PO Box 1306
Artesia, New Mexico 88210

Penroc Oil Corporation
PO Box 5970
Hobbs, New Mexico 88241-5970

Vintage Petroleum, Inc.
4200 One Williams Center
Tulsa, Oklahoma 74172

Phil Miller
Senior Staff Engineer

c: File

Fina Oil and Chemical Company
6 Desta Drive, Suite 4400 • Midland, TX 79705
P.O. Box 2990 • Midland, TX 79702 • (915) 688-0600

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-015-20295		Wildcat

Property Code	Property Name	Well Number
	TENNECO HAGERTY FEDERAL	1

OGRID No.	Operator Name	Elevation
007853	FINA OIL & CHEMICAL COMPANY	3756

Surface Location

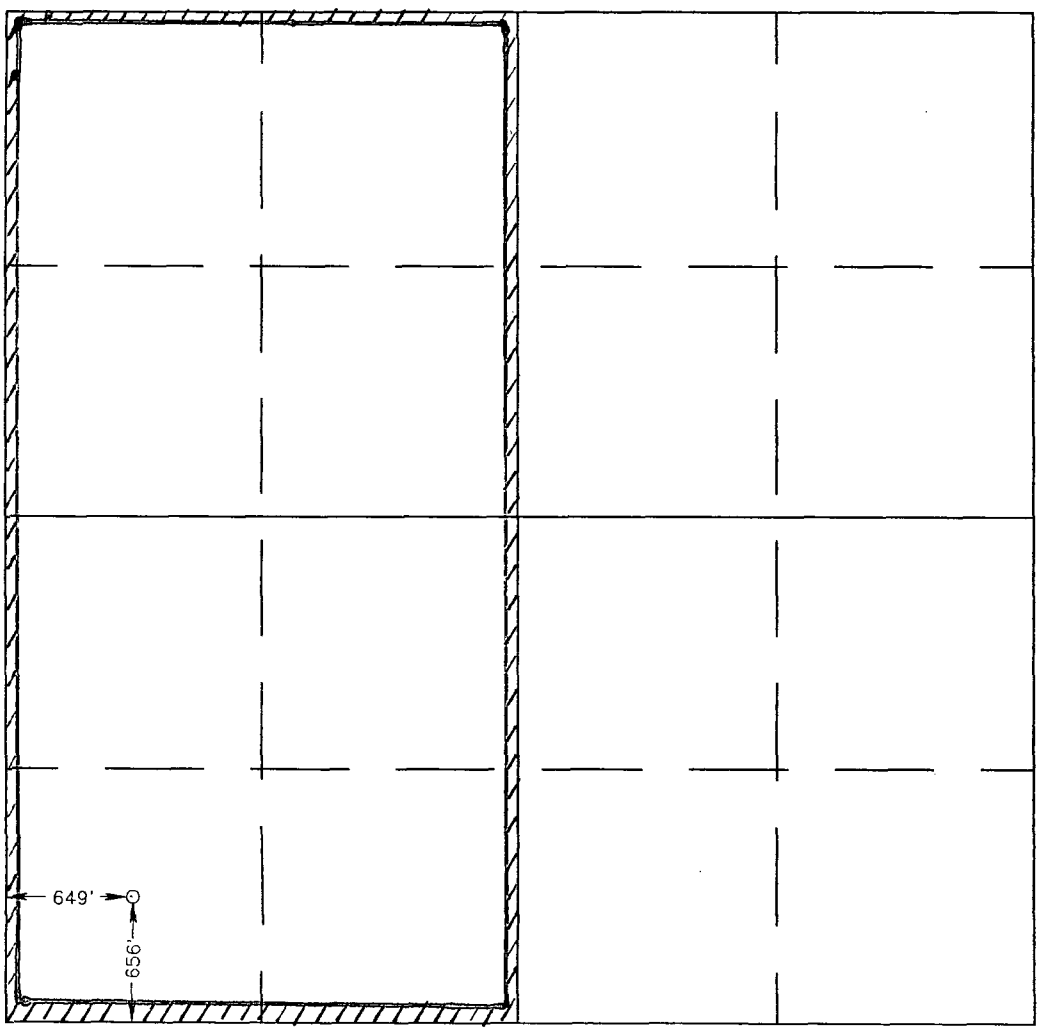
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	7	16 S	30 E		656	SOUTH	649	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.

Phil Miller
Signature

Phil Miller
Printed Name

Sr. Staff Engineer
Title

7-9-96
Date

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that the same is true and correct to the best of my belief.

MAY 29, 1996

Date Surveyed CDG

Signature & Seal of Professional Surveyor

RONALD J. EIDSON NEW MEXICO 3239 REGISTERED PROFESSIONAL SURVEYOR

6/13/96

96-11-0629

Certificate No. JOHN W. WEST 676
RONALD J. EIDSON 3239
GARY L. EIDSON 12641

EXHIBIT A

OPERATOR'S COPY

Form 3160-3
(July 1992)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

FORM APPROVED
OMB NO. 1004-0136
Expires: February 28, 1995

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

5. LEASE DESIGNATION AND SERIAL NO.: NM 7724

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME, WELL NO.: Tenneco Hagerty Federal No.

9. API WELL NO.: 30-015-20295

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 7, T-16-S, R-30-E

1a. TYPE OF WORK: DRILL ☐ DEEPEN ☒ (Re-entry)

b. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ OTHER — SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. NAME OF OPERATOR: Fina Oil and Chemical Company

3. ADDRESS AND TELEPHONE NO.: P.O. Box 10887 Midland, TX 79702-0887

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 656' FSL & 649' FWL, Sec 7, T-16-S, R-30-E
At proposed prod. zone: Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 9 miles NW of Loco Hills, NM

12. COUNTY OR PARISH: Eddy

13. STATE: NM

15. 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	17. NO. OF ACRES ASSIGNED TO THIS WELL
649'	2501.32	320
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**
NA	10,640'	Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 3756' GR

22. APPROX. DATE WORK WILL START*: ASAP

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	11 3/4"	42	448'	300 sx
11"	8 5/8"	24, 32	2800'	755 sx (500 sx originally)
7 7/8"	4 1/2"	10.5, 11.6	10,640'	1030 sx

11 3/4" Casing: Already cemented in place.

8 5/8" Casing: Existing 8 5/8" 32# casing was shot off at 882' during abandonment. Plan to dress off top of 8 5/8" casing and tie back to surface using 8 5/8" 24# casing. Circulate to surface using 155 sx 35:65 Poz containing 6% gel and 3% salt. Tail with 100 sx CL "C" with 2% CaCL.

4 1/2" Casing: 635 sx CL "C" containing 15 lbs/sx fly ash, 11 lbs/sx fumed silica, 1.2% fluid loss additives, and 4 lbs/sx LCM. Tail with 395 sx CL "H" containing 5 lbs/sx fumed silica and 1.6% fluid loss additives.

Approval Subject to
General Requirements and
Special Stipulations
Attached

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, 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 Phil Miller Phil Miller TITLE Sr. Staff Engineer DATE 7-9-96

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

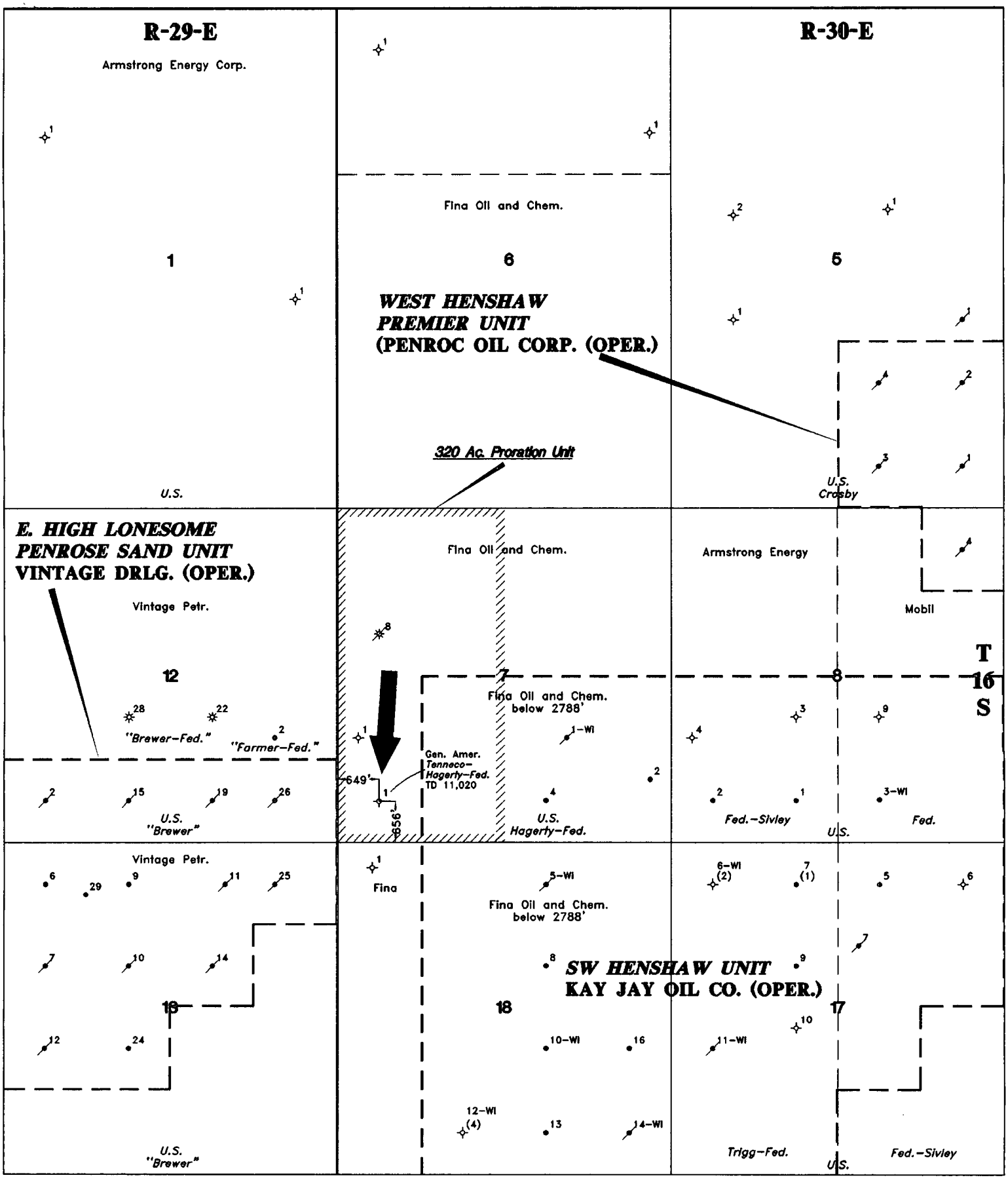
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY Roland L. Manus TITLE _____ DATE 8/14/96

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



I certify this to be a correct and accurate plat to the best of my knowledge.

Phillip D. Miller

N

FINA OIL & CHEMICAL CO.
WESTERN DIVISION

TENNECO-HAGERTY-FED. #1
WILDCAT RE-ENTRY PROSPECT
EDDY COUNTY, NEW MEXICO

DWG. : HAGERTY | Scale: 1" = 2000' | Drafted by: J.V.A.

SUMMARY OF PROPOSED OPERATIONS
Re-entry, Casing, and Cementing Program

Fina Oil and Chemical Company
Tenneco Hagerty Federal No.1
Unit M, 656' FSL & 649' FWL, Section 7, T-16-S, R-30-E
Eddy County, New Mexico

1. Restore previous drill site (including lined reserve pit) to accommodate drilling rig and related equipment.

2. Move in and rig up drilling rig and related equipment.

3. Install starting head for 11 ¾" casing. Nipple up BOP and perform low test of 250 psi and high test of 1000 psi.

4. Drill out surface plug in 11 ¾" casing using a 11" bit. Clean out to approximately 882'.

5. Run 7 7/8" bit to re-enter the top of the 8 5/8" casing at 882'.

6. Run 8 5/8" 24# K-55 casing with bowl over assembly to tie back existing 8 5/8" casing to surface. Cement 8 5/8" casing using 155 sx 35:65 Poz containing 6% gel and 3% salt and follow with 100 sx Cl "C" containing 2% $CaCl_2$. Displace using wooden plug. Wait on cement 8 hours.

7. Install casing spool for 8 5/8" casing on top of 11 ¾" starting head. Nipple up BOP and perform low test of 250 psi and high test of 1000 psi.

8. Drill out 8 5/8" wooden plug and cement plug across 8 5/8" casing shoe using a 7 7/8" bit. Continue using a fresh water mud system at 2800'. Drill out cement plugs at 4457', 6100', and 7396'. Seepage losses of mud will be tracked, monitored, and controlled with lost circulation material. More severe lost circulation will be controlled by concentrated slugs of lost circulation material. Circulate mud system through steel pits.

9. Anticipated pressure of the Wolfcamp at 8400' is 3150 psi. Anticipated pressure of the Cisco at 8765' is 3300 psi. Anticipated pressure of the Morrow at 10,550' is 4450 psi.. Pit levels will be closely monitored for gains or losses. Final re-entry depth is anticipated to be 10,640'.

10. No drill stem tests are planned. A gamma ray - nuclear magnetic resonance (GR-NMR) log may be run. Possible rotary sidewall cores will be taken in the Morrow formation.

11. Run 4 ½" 11.6# N-80 & S-95 casing. Cement using 635 sx CL "C" containing 15 lbs/sx of fly ash, 11 lbs/sx of fumed silica, 1.2% fluid loss additives, and 4 lbs/sx of LCM and follow with 395 sx CL "H" containing 5 lbs/sx fumed silica and 1.6% fluid loss additives. A guide shoe, float collar, and 40 centralizers will be run. 200 barrels of nitrified mud followed by a 500 gallon water base mud wash will precede the cement slurry. Cement will be displaced using 2% KCL water.

12. Perforations and stimulation will be determined later.

Additional Data To Be Included in Scope of Operations

Fina Oil and Chemical Company
Tenneco Hagerty Federal
656' FSL & 649' FWL, SEC 7, T-16-S, R-30-E, N.M.P.M.
Eddy County, New Mexico

1) **BOP Equipment:**

The BOP stack will be of double ram style with blind rams on bottom and pipe rams on top. Pipe rams will be of appropriate style and size to match drill pipe being used. Working and test pressures will be in excess of any known or planned well pressures to a minimum of 5000 psi. This BOP stack and wellhead assembly on which it is to be mounted will be tested to 250 psi for a low test and to 1000 psi for high test. These tests will be performed before any further operations begin.

Choke manifold, BOP and wellhead valves will also be pressure tested in a like manner. Minimum choke manifold arrangement will consist of one main and one backup valve coming off the wellhead leading to a choke manifold. Choke manifold lines will be steel with suitable connections and tested to the same pressures as the BOP stack. Redundant chokes with one master and one backup valve will make up the choke manifold assembly. A flare line leading to a burn pit will be laid from the choke manifold to allow venting / flaring.

Additionally, a rotating head assembly will be incorporated with the BOP stack. An annular preventer may also be installed depending on suitability.

2) **Location Site, Access Road and Reserve Pits:**

In that this project will be wholly contained on a drill site previously built for the purpose of drilling a new well, it will not be necessary to disturb additional lands to accommodate this re-entry operation. Roads and drill site will be reconstructed over the earlier location in their exact dimensions. Furthermore, as this construction does not intrude on any new ground, an archaeological survey will not be required.

Drilling reserve pits will be of sufficient size to provide adequate circulation volume with the existing hole size. A plastic liner will be utilized to protect surrounding property. These pits will occupy the same area as those of the previous drilling operation.

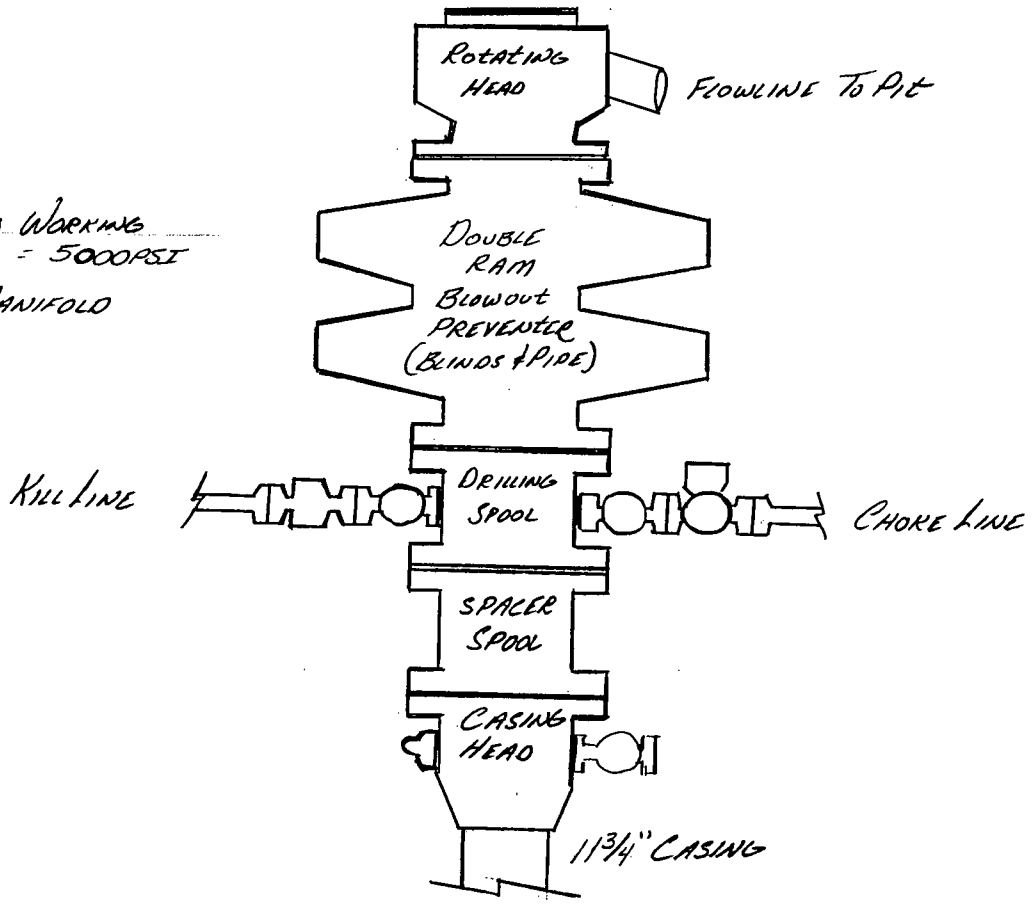
3) **H_2S Plan:**

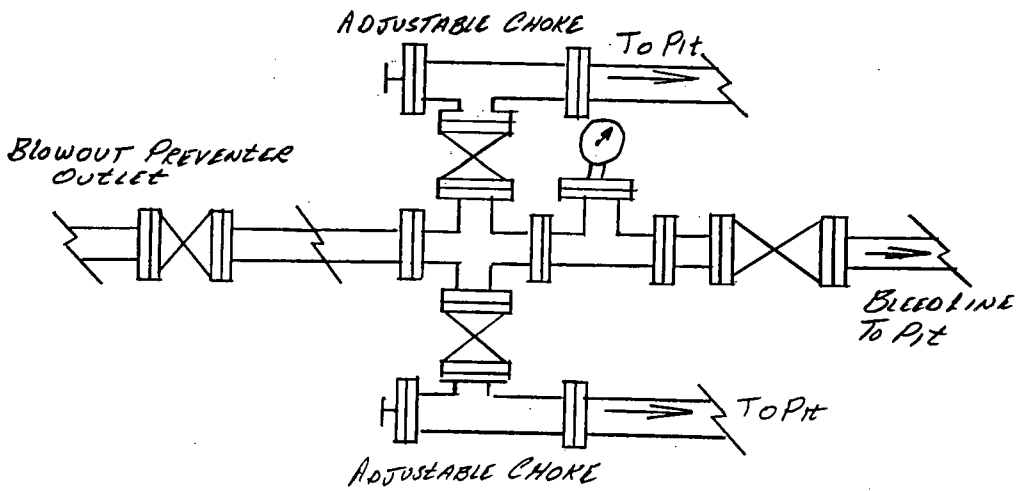
H_2S is not expected to exist in such quantities to warrant an extensive safety program, however, certain steps will be taken to safeguard life and property. These safety precautions include a monitoring system for measuring H_2S concentrations at the flow line, BOP stack and on the drilling floor. Also, a warning light and siren to alert of H_2S concentrations of 10 ppm or greater will be placed near the driller's console. An emergency air package of one (1) five minute escape pack for each crew member will be provided and maintained on the drilling floor. Also, two (2) thirty minute rescue packs will be placed at each of the two strategically located briefing areas. All personnel are to be H_2S trained and familiar with safety practices and equipment.

The mud system will be maintained with sufficient pH control to retain any H_2S in solution along with adequate mud density to control the possibility of gas influx. Wind shocks to indicate wind directions will be used in two highly visible areas plus an entry sign placed on the access road advising anyone entering the site of any possible H_2S safety hazards.

BOP SCHEMATIC

Minimum Working Pressure = 5000PSI
BOP & Manifold





GEOLOGICAL DISCUSSION

FINA OIL AND CHEMICAL COMPANY
TENNECO HAGERTY FEDERAL NO. 1
UNIT M, 656' FSL & 649' FWL, SEC 7, T-16-S, R-30-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

Regional Geology

In southeastern New Mexico, lower Pennsylvanian Morrowan sandstones produce gas from small, areally restricted reservoirs that are commonly 10,000 to 12,000 feet in depth. The Morrow Series is generally divided into the Lower, Middle, and Upper Divisions in the subsurface. In general, Lower and Middle Morrow sandstones are the most productive intervals.

In the Tenneco Hagerty Federal well, Lower Morrow sandstones appear to have the best potential for gas production. The Lower Morrow within this area typically consists of a sequence of carbonaceous, coarse-grained sands deposited as delta associated fluvial channels. These delta associated fluvial channels were deposited on a broad coastal plain and have a present-day regional structural dip of 140 ft/mi. Production is found in narrow, slightly sinuous, dip-trending (northwest to southeast) channel fill sandstones. The migration and trapping of gas in these Morrowan channels is stratigraphically controlled and dependent on the development of secondary porosity and permeability. Gross and Net "Pay" isopachs of the Lower Morrow display the size and trend of these channel fill sandstones within the Tenneco Hagerty Federal #1 area. The west to east cross section depicts the sudden development of a Lower Morrow channel fill sandstone within the Tenneco Hagerty Federal #1.

Log Analysis

The Morrow section from the Tenneco Hagerty Federal #1 was digitized using Neurolog and then loaded into Terrascience for log analysis. The first track of the log display contains the spontaneous potential, gamma ray, and R_{xo}/R_t curve, properly scaled to match the SP, and the SP curve provide a quick look location of producible hydrocarbons. As can be seen in the first track, the SP and R_{xo}/R_t do have considerable separation within the zone of interest indicating hydrocarbons that are moveable or producible.

The depth track displays the interval of drill stem test #4. The results from that DST can be found at the bottom of the display. These results are taken from completion tickets and annotations from the mudlog. It appears the Lower Morrow will produce gas as seen from the DST, but mudcake and invasion of drilling fluids could be hindering a true test of what the formation can potentially produce.

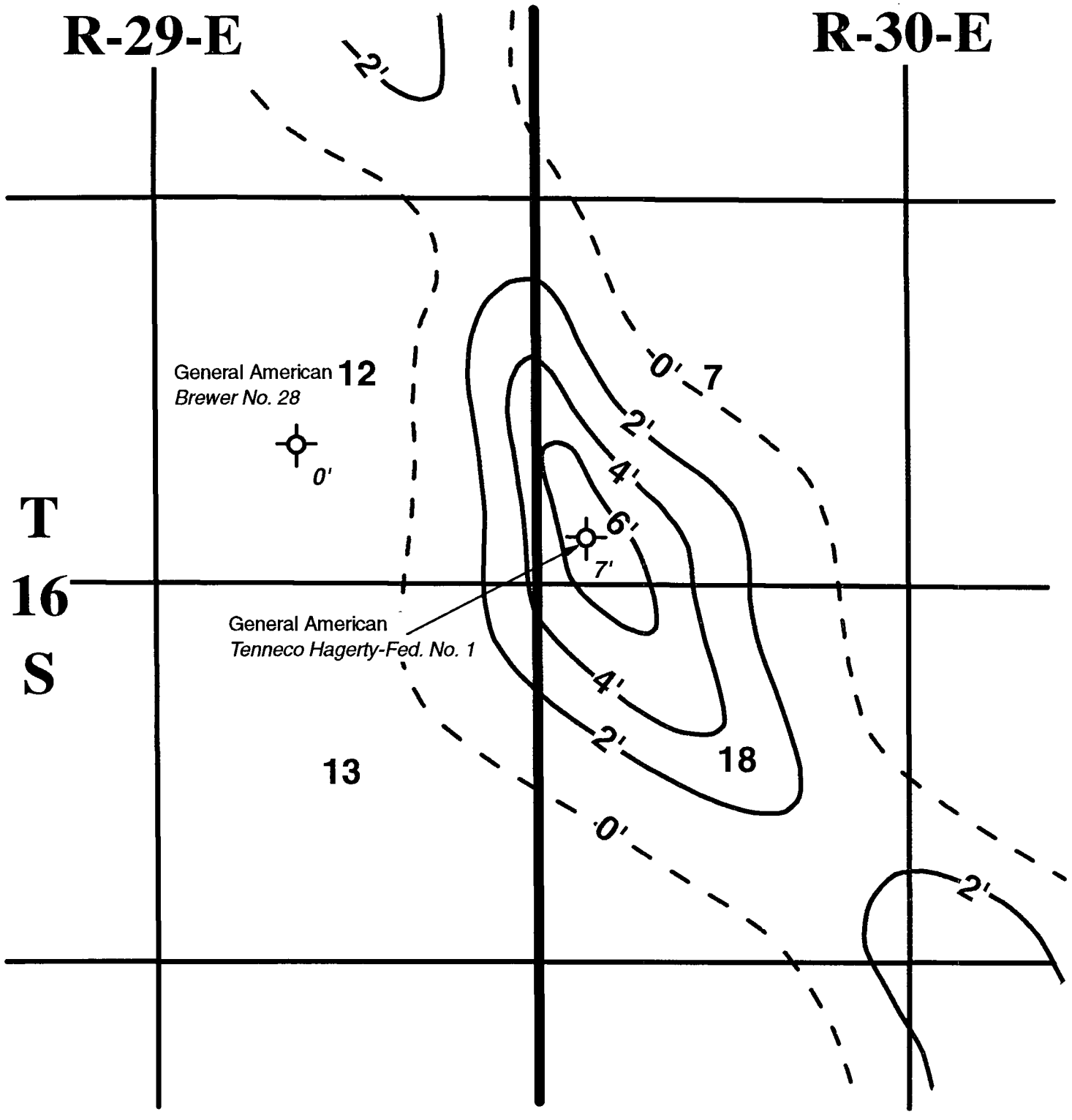
The second track displays the sidewall neutron porosity and density porosity. Both curves were recorded on a limestone matrix, therefore, wherever there is gas effect or crossover (the neutron curve crosses to the right of the density curve) there may be

potential hydrocarbons. The gas effect is shaded as green. Gas effect can also be caused by certain minerals or lithologies such as chert and sandstone. Some of the gas effect in the upper portion of the log display is due to the presence of chert. Average total apparent porosity for the Lower Morrow is 15%.

The third track displays three resistivity curves: shallow, medium, and deep. The fourth track is taken directly from the mudlog where there is a increase of gas (C1, C2, etc.) in the drilling fluid corresponding with the Lower Morrow Sandstone. The fifth and final track is water saturation calculations derived from Archie's equation. The R_w (resistivity of formation water) was calculated from the SP curve and fits well with other known R_w 's from Morrow producers. Everything that has less than 30% S_w is shaded in green and once again it is found within the Lower Morrow Sandstone.

Conclusions

The Tenneco Hagerty Federal #1 should be reentered as a Morrow test from 10,554'-10,568. Log analysis, water saturation calculations, gas shows, and mudlog shows all indicate the Morrow sandstone as being porous, permeable and productive. Our concern at this point should be the potential formation damage that could have occurred during drilling as well as any clay mineral problems. It should also be noted there may be several other potential bailout zones if needed.

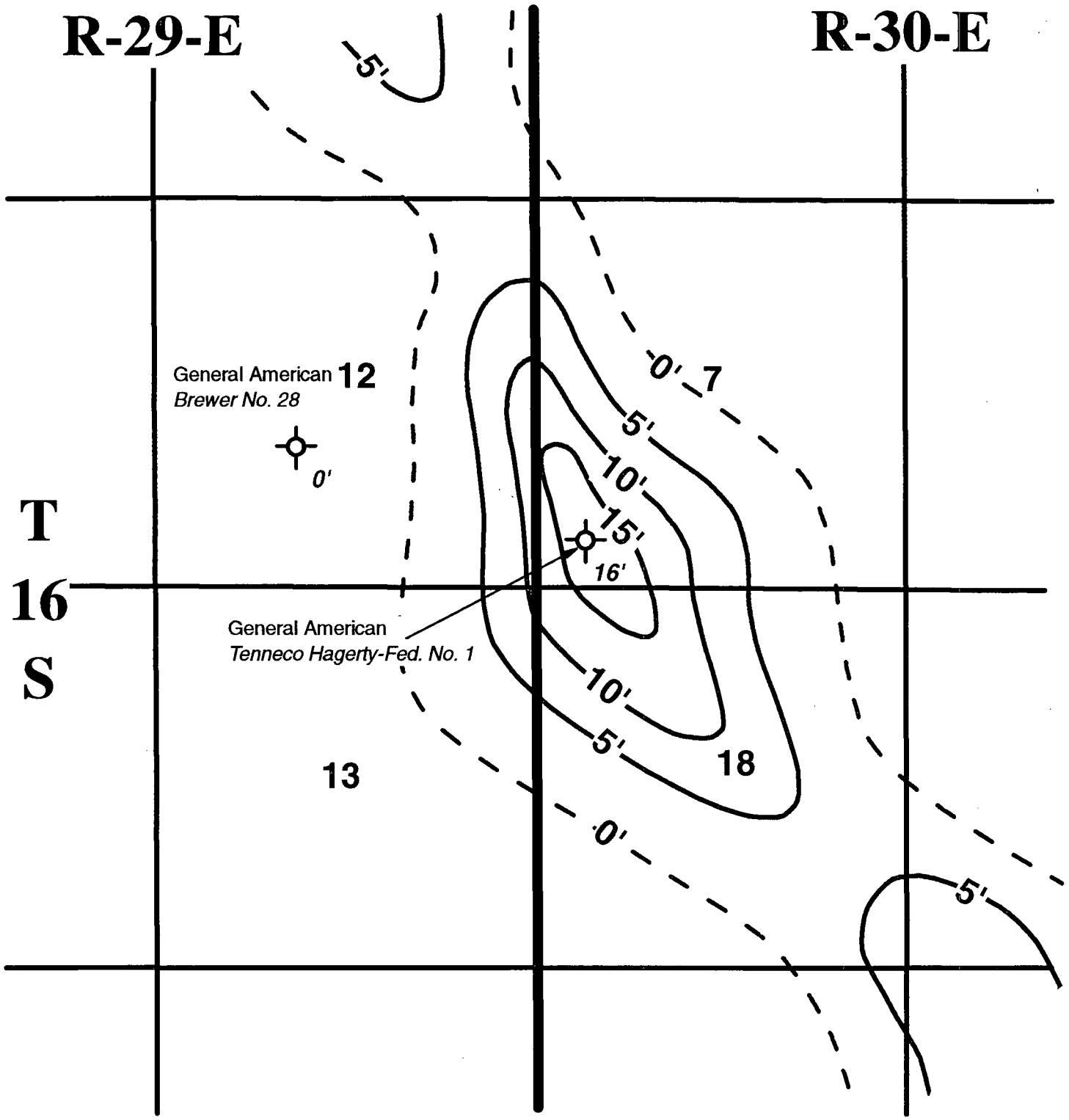


NET "PAY" ISOPACH MORROW SANDSTONE

C.I. = 2'

Note: Only Morrow Penetrations are Shown.
Scale: 1" = 2000'

Geology: R. Martin
Date: 2 - 96



GROSS ISOPACH MORROW SANDSTONE

C.I. = 5'

Note: Only Morrow Penetrations are Shown.
Scale: 1" = 2000'

Geology: R. Martin
Date: 2 - 96

September 19, 1996

State of New Mexico
Oil Conservation Division
PO Box 2088
Santa Fe, New Mexico 87504-2088

RE: Re-entry of Tenneco Hagerty Federal No. 1
Unorthodox Location (Rule 104 B. (I)(a))
SW/4 SW/4 Section 7, Township 16 South, Range 30 East
Eddy County, New Mexico

Gentlemen:

Notice of application of the subject well was sent Thursday, September 19, 1996, via certified mail to the offset operator listed below. This operator was inadvertently omitted from the original mailing on September 11, 1996.

Phillips Petroleum Company
Land Department
4001 Penbrook Street
Odessa, Texas 79762

Sincerely,

Phil Miller
Senior Staff Engineer

c: File

Fina Oil and Chemical Company
6 Desta Drive, Suite 4400 • Midland, TX 79705
P.O. Box 2990 • Midland, TX 79702 • (915) 688-0600

September 19, 1996

RECEIVED
SEP 20 1996
Oil Conservation Division

Michael Stogner
State of New Mexico
Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87504-2088

RE: Re-entry of Tenneco Hagerty Federal No. 1
SW/4 SW/4 Section 7, Township 16 South 30 East
Eddy County, New Mexico

Dear Mr. Stogner:

Enclosed are signed waivers from Kay Jay Oil Company and Penroc Oil Corporation.

Thank you for you assistance in this matter.

Sincerely,

Mary Ann Martinez

Mary Ann Martinez
Production Analyst

c: Phil Miller
Well File

Fina Oil and Chemical Company
6 Desta Drive, Suite 4400 • Midland, TX 79705
P.O. Box 2990 • Midland, TX 79702 • (915) 688-0600

September 11, 1996

Kay Jay Oil Company
P. O. Box 1306
Artesia, NM 88210

RE: RULE 104 F, Unorthodox Locations
Re-entry of Tenneco Hagerty Federal No. 1
SW/4 SW/4 Section 7, Township 16S, Range 30E
Eddy County, New Mexico

Gentlemen:

Fina Oil & Chemical Company has filed application on the above referenced well and requests that Kay Jay Oil Company waive any objection to the proposed Re-entry to the Lower Morrow. Enclosed are plats, which upon your examination, delineate the location of the well.

If the foregoing meets your approval, please signify by signing hereinbelow and return to me in the enclosed envelope. If there are any questions, please call me at 915/688-0649 or Phil Miller, Senior Staff Engineer at the number listed below.

Sincerely,

Mary Ann Martinez

Mary Ann Martinez
Production Analyst

Enclosures

We hereby waive any objection to the proposed Re-entry location of Fina Oil & Chemical Company's Tenneco Hagerty Federal Well No. 1, Wildcat Field, Eddy County, New Mexico.

KAY JAY OIL COMPANY

By: Fred B Jay

Title: Owner/Opr.

Date: 9-13-96

Fina Oil and Chemical Company
6 Desta Drive, Suite 4400 • Midland, TX 79705
P.O. Box 2990 • Midland, TX 79702 • (915) 688-0600

FINA

September 11, 1996

Penroc Oil Corporation
P. O. Box 5970
Hobbs, NM 88241-5970

RE: RULE 104 F, Unorthodox Locations
Re-entry of Tenneco Hagerty Federal No. 1
SW/4 SW/4 Section 7, Township 16S, Range 30E
Eddy County, New Mexico

Gentlemen:

Fina Oil & Chemical Company has filed application on the above referenced well and requests that Penroc Oil Corporation waive any objection to the proposed Re-entry to the Lower Morrow. Enclosed are plats, which upon your examination, delineate the location of the well.

If the foregoing meets your approval, please signify by signing hereinbelow and return to me in the enclosed envelope. If there are any questions, please call me at 915/688-0649 or Phil Miller, Senior Staff Engineer at the number listed below.

Sincerely,

Mary Ann Martinez

Mary Ann Martinez
Production Analyst

Enclosures

We hereby waive any objection to the proposed Re-entry location of Fina Oil & Chemical Company's Tenneco Hagerty Federal Well No. 1, Wildcat Field, Eddy County, New Mexico.

PENROC OIL CORPORATION

By: _____

Title: Pres.

Date: 9/17/96

Fina Oil and Chemical Company
6 Desta Drive, Suite 4400 • Midland, TX 79705
P.O. Box 2990 • Midland, TX 79702 • (915) 688-0600

Sec : 07 Twp : 16S Rng : 30E Section Type : NORMAL

1 36.29 Federal owned	C 40.00 Federal owned	B 40.00 Federal owned	A 40.00 Federal owned
2 36.30 Federal owned	F 40.00 Federal owned	G 40.00 Federal owned	H 40.00 Federal owned

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06
PF07 BKWD PF08 FWD PF09 PRINT PF10 SDIV PF11 PF12

152.59
152.65
305.24

Sec : 07 Twp : 16S Rng : 30E Section Type : NORMAL

3 36.32 Federal owned	K 40.00 Federal owned	J 40.00 Federal owned	I 40.00 Federal owned
4 36.33 CS OPEN R A	N 40.00 Federal owned	O 40.00 Federal owned A	P 40.00 Federal owned A

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06
PF07 BKWD PF08 FWD PF09 PRINT PF10 SDIV PF11 PF12

152.65

R-29-E

R-30-E

HIGH NITRO

HIGH LONESOME PENROSE UNIT ARMSTRONG ENER. (OPER.)

E. HIGH LONESOME PENROSE SAND UNIT ARMSTRONG ENER (OPER.)

1ST HENSHAW PREMIER UNIT ENROC (OPER.)

S.W. HENSHAW UNIT

W. 1ST HENSHAW

BEAR DRAW

PALO MESA

FOREST GRBG UNIT MARBOB ENER (OPER.)

FOREST

PETRUS OIL (OPER.) HENSHAW DEEP UNIT

J.C. THOMPSON ETAL (OPER.) LAKE UNIT