

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
COMMISSION OF NEW MEXICO FOR  
THE PURPOSE OF CONSIDERING:

CASE No. 2614  
Order No. R-2303

APPLICATION OF PAN AMERICAN PETROLEUM  
CORPORATION FOR A TRIPLE COMPLETION,  
LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on August 8, 1962, at Santa Fe, New Mexico, before Daniel S. Nutter, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 13th day of August, 1962, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Daniel S. Nutter, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Pan American Petroleum Corporation, is the owner and operator of the USA H. V. Pike Well No. 1, located 330 feet from the North line and 330 feet from the East line of Section 6, Township 23 South, Range 38 East, NMPM, Lea County, New Mexico.
- (3) That the applicant seeks permission to complete said USA H. V. Pike Well No. 1 as a triple completion (conventional) in the Blinebry Oil Pool, Tubb Gas Pool, and Drinkard Oil Pool in such a manner as to produce oil from the Blinebry formation and from the Drinkard formation through 2-inch OD Buttress Thread tubing and 2 3/8-inch EUE tubing, respectively, and to produce gas from the Tubb formation through 2-inch OD Buttress Thread tubing.
- (4) That the mechanics of the proposed triple completion are feasible and in accord with good conservation practices.
- (5) That approval of the subject application will neither cause waste nor impair correlative rights.

-2-

CASE No. 2614  
Order No. R-2303

IT IS THEREFORE ORDERED:

(1) That the applicant, Pan American Petroleum Corporation, is hereby authorized to complete its USA H. V. Pike Well No. 1, located 330 feet from the North line and 330 feet from the East line of Section 6, Township 23 South, Range 38 East, NMPM, Lea County, New Mexico, as a triple completion (conventional) in the Blinebry Oil Pool, Tubb Gas Pool, and Drinkard Oil Pool in such a manner as to produce oil from the Blinebry and the Drinkard formations and to produce gas from the Tubb formation through parallel strings of tubing.

PROVIDED HOWEVER, That the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations.

PROVIDED FURTHER, That the operator shall conduct packer-leakage tests upon completion and annually thereafter during the Gas-Oil Ratio Test Period for the Drinkard Oil Pool.

(2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year herein-above designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION



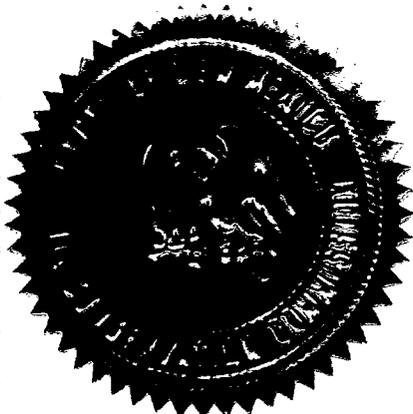
EDWIN L. MECHEM, Chairman



E. S. WALKER, Member



A. L. PORTER, Jr., Member & Secretary



esr/

DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.  
PHONE 325-1182

ALBUQUERQUE, N. M.  
PHONE 243-6691

BEFORE THE  
OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
August 8, 1962

EXAMINER HEARING

-----  
IN THE MATTER OF: )

Application of Pan American Petroleum )  
Corporation for a triple completion, )  
Lea County, New Mexico. Applicant, in )  
the above-styled cause, seeks permis- )  
sion to complete its USA H. V. Pike )  
Well No. 1, located in Unit A of Sec- )  
tion 6, Township 23 South, Range 38 )  
East, Lea County, New Mexico as a )  
triple completion (conventional) in )  
the Blinebry Oil Pool, Tubb Gas Pool )  
and Drinkard Oil Pool, with the pro- )  
duction of oil from the Blinebry and )  
Drinkard formations and gas from the )  
Tubb formations through parallel )  
strings of tubing. )

Case 2614

-----  
BEFORE: Mr. Daniel S. Nutter, Examiner.

TRANSCRIPT OF HEARING

MR. NUTTER: We will call next Case 2614.

MR. FLINT: Application of Pan American Petroleum Corporation for a triple completion, Lea County, New Mexico.

MR. COOTER: Paul Cooter of Atwood, Malone, Roswell, New Mexico for the applicant. We will call as our witness Mr. W. J. Sandidge.



(Witness sworn.)

W. J. SANDIDGE, JR.

called as a witness, having been first duly sworn, testified as follows:

DIRECT EXAMINATIONBY MR. COOTER:

Q Would you please state your name for the record?

A W. J. Sandidge, Junior.

Q By whom are you employed, Mr. Sandidge?

A Pan American Petroleum Corporation.

Q In what capacity?

A I'm a petroleum engineer senior grade in their Lubbock district office.

Q Mr. Sandidge, have you previously testified as an expert witness before the Commission?

A I have.

MR. COOTER: Mr. Examiner, are Mr. Sandidge's qualifications acceptable?

MR. NUTTER: They are, please proceed.

Q (By Mr. Cooter) This application concerns a proposed triple completion. Mr. Sandidge, would you explain or relate the location of the well?

(Whereupon, Applicant's Exhibit No. 1 marked for identification.)

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A The well in question is the Pan American Pike No. 1, which is located 330 feet from the north and east lines of Section 6, Township 23 South, Range 38 East in Lea County, New Mexico. This is approximately seven miles southeast of Eunice, New Mexico.

Q Is that the location which is shown as Attachment No. 1?

A That location is shown on Attachment No. 1 in the brochure. The well itself is indicated by a red arrow.

Q Next, Mr. Sandidge, I direct your attention to the brochure Attachment No. 2. Would you please explain what Attachment No. 2 is?

A Attachment 2 is a schematic diagram of the mechanical completion of Pike No. 1. The well has 9-5/8ths inch surface casing set at 1298 feet with sufficient cement to circulate. It has 7-inch oil string set at 7,038 feet with 680 sacks of Neat Inferno cement. The top of the cement is reported at 2550 feet. This is what's termed a conventional triple completion; that is, each zone will be produced through separate tubing strings. The three zones in the well are separated by production packers. There is an Otis Type WA Packer at 6470 feet, above the Drinkard perforations which are selectively perforated from 6727 to 6956. Above that packer are the Tubb perforations, 6199, these again are selective perforations from 6199 to 6264. There is an Otis

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Type WA Packer at 5975 feet, with a twin flow conversion unit set in the packer. The Blinebry was selectively perforated above this packer over the interval 5672 to 5893. We have used 2-3/8ths inch OD tubing for the Drinkard completion. That tubing string is bottomed at 6841. We've used 2-inch Buttress thread tubing for the Tubb completion; that string is bottomed at 5979. We've also used 2-inch Buttress thread tubing for the Blinebry tubing, and that string is bottomed at 5680.

Q Mr. Sandidge, could you give the approximate cost of this well and completion?

A This well cost approximately \$125,000.00 completed.

Q By the use of the packers and the completion as you have outlined, is there adequate protection for the separation of the producing zones?

A We feel that the zones are adequately separated and this will be a safe and efficient manner in which to produce the well.

Q Have the offset operators waived any objection?

A Notices of our application were sent to the five companies and they have waived objection. We have copies of their waivers in the brochure as Attachments 3-A through E.

Q Next I direct your attention to Attachment No. 4. Would you please relate what that is?

A Attachment 4 is a gamma ray neutron log of the well in



question. We have shown in red thereon the tops and the bottoms of the three producing formations and also the perforated intervals.

Q And Attachment No. 5 to your brochure is your application which is now being heard?

A Attachment 5 is a copy of the application which was previously submitted.

MR. COOTER: We offer into evidence, Mr. Examiner, Attachments 1 through 5 contained in the brochure as Exhibit 1 in this case.

MR. NUTTER: The brochure will be identified as Exhibit No. 1 with Attachments 1 through 5, and admitted in evidence.

(Whereupon, Applicant's Exhibit No. 1 was admitted in evidence.)

Q (By Mr. Cooter) Do you have anything else you would like to add?

A I have nothing further.

MR. NUTTER: Any questions of Mr. Sandidge?

CROSS EXAMINATION

BY MR. FLINT:

Q Mr. Sandidge, is Attachment 2 to your Exhibit 1 identical with your exhibit which was attached to the application?

A There is one slight change. After the exhibit was

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originally submitted, it was discovered that we had 2-inch OD Buttress thread tubing on the two upper zones. I believe that was reported as 2-inch EUE standard tubing before. I have a copy of that somewhere.

Q That's fine. The perforations indicated on the two exhibits are the same?

A Yes.

Q The one that you submitted with the application?

A To my knowledge they are, yes. Let me elaborate on that. I believe the original exhibit just gave you the tops and the bottoms.

Q It's within this range.

A I took this out of the well completion record and to my knowledge these are the correct perforations.

Q But all the perforations indicated on this attachment to Exhibit 1 are within the range that was indicated on your original application?

A Yes, sir, that's correct.

Q What stage of completion is this well in at the present time, if you know?

A We have filed for an allowable, filed a potential test for the Blinebry and are producing the Blinebry. Additional testing has been performed on both the Tubb and the Drinkard,

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and as soon as packer leakage tests are completed they will be filed with the Commission and we will produce those when we get an allowable.

MR. FLINT: That's all I have.

BY MR. NUTTER:

Q Is your completion in the Blinebry definitely an oil well?

A Yes, sir, the Blinebry on potential flowed sixty-two barrels, six barrels of water, with a flowing tubing pressure of 275 pounds.

BY MR. FLINT:

Q What was the GOR?

A 697.

Q And the gravity of the oil?

A I'll have to check my record, I don't know. 39.4 degrees API.

Q That sixty-two barrels of oil, was that in twenty-four hours?

A That was a twenty-four hour test, yes, sir, Mr. Nutter.

Q Has your completion gone far enough in the Tubb that you know definitely whether you have an oil well or gas well there?

A On the last test the Tubb flowed sixty-two barrels of load oil and no water on an 8/64th choke; the Tubb pressure

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flowing was 1500 pounds; the GOR that time was 12,625; the corrected gravity of the fluid was 49.7 degrees and we were still recovering load oil at that time.

Q What about your potential in the Drinkard, have you got one?

A Yes, sir, I'm sorry I didn't bring that up. The Drinkard flowed eighteen barrels of oil, three barrels of water in twenty-four hours on a 61/64. The Tubb pressure flowing was 65, I don't believe I have that GOR handy. However, it was a low ratio, as I recall.

Q What kind of a packer is an Otis Type WA Packer, Mr. Sandidge?

A That is a packer that is installed in the well on a wire line. It's, of course, manufactured by Otis. It is similar to the Baker Model D Packer, so far as I know.

Q It is a permanently set packer?

A It is a permanently set packer, yes, sir, with opposed slips.

MR. NUTTER: Any further questions? Witness may be excused.

(Witness excused.)

MR. NUTTER: Do you have anything further, Mr. Cooter?

MR. COOTER: No, sir.

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GOVERNOR  
EDWIN L. MECHEM  
CHAIRMAN

State of New Mexico  
**Oil Conservation Commission**



STATE GEOLOGIST  
A. L. PORTER, JR.  
SECRETARY - DIRECTOR

LAND COMMISSIONER  
E. S. JOHNNY WALKER  
MEMBER

P. O. BOX 871  
SANTA FE

August 13, 1962

Mr. Guy Buell  
Pan American Petroleum Corporation  
Box 1410  
Fort Worth 1, Texas

Re: Case No. 2614  
Order No. R-2303  
Applicant:  
Pan American Petroleum Corporation

Dear Sir:

Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ir/

Carbon copy of order also sent to:

Hobbs OCC     x    

Artesia OCC           

Aztec OCC           

OTHER Mr. Paul Cooter

\_\_\_\_\_

\_\_\_\_\_

OIL CONSERVATION COMMISSION

*See 7-21-62*

1962 JUL 23 AM BOX 20A5

HOBBS, NEW MEXICO

DATE July 20, 1962

OIL CONSERVATION COMMISSION  
BOX 871  
SANTA FE, NEW MEXICO

Re: Proposed NSP \_\_\_\_\_

Proposed NSL \_\_\_\_\_

Proposed NFO \_\_\_\_\_

Proposed DC \_\_\_\_\_

Triple       X      

Gentlemen:

I have examined the application dated July 20, 1962  
for the Pan American USA H.U. Pike #1-A 6-23-38  
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

OK EFE  
Geologically OK if Perf. are with in limits shown on diagrammatic  
shetch of completion. JWR  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Yours very truly,

OIL CONSERVATION COMMISSION

NEW MEXICO OIL CONSERVATION COMMISSION

Set for hearing

SANTA FE, NEW MEXICO

5-1-61

CASE 2614

APPLICATION FOR MULTIPLE COMPLETION

Operator	Pan American Petroleum Corporation		County	Lea	Date	July 16, 1962
Address	Box 68 - Hobbs, New Mexico		Lease	USA H. V. Pike	Well No.	1
Location of Well	Unit	Section	Township	Range		
	"A"	6	23-S	38-E		

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES X NO \_\_\_\_\_
2. If answer is yes, identify one such instance: Order No. MC R-176S; Operator, Lease, and Well No.:

Union Texas Natural Gas - Western Federal Well No. 1, Sec. 5 - T-23-S, R-38-E

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Blinebry	Tubb	Drinkard
b. Top and Bottom of Pay Section (Perforations)			
c. Type of production (Oil or Gas)	Oil	Gas	Oil
d. Method of Production (Flowing or Artificial Lift)	Flowing	Flowing	Flowing

4. The following are attached. (Please mark YES or NO)
- Yes a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameter and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
- Yes b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
- Yes c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.\*
- Yes d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed, it shall be submitted as provided by Rule 112-A.)

5. List all offset operators to the lease on which this well is located together with their correct mailing address.
- Texaco Inc., Box 728, Hobbs, New Mexico
- Gulf Oil Corporation, Box 2167, Hobbs, New Mexico
- DeKalb Agriculture Assn. Inc. 315 N. 5th, DeKalb, Illinois
- Union Texas Petroleum, Box 196, Midland, Texas
- Cities Service Oil Company, Box 97, Hobbs, New Mexico

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO \_\_\_\_ . If answer is yes, give date of such notification 7-16-62

CERTIFICATE: I, the undersigned, state that I am the Area Superintendent of the Pan American Petroleum Corporation (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

*Robert [Signature]*  
7/25/62

*[Signature]*  
V. E. Staley Signature

Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard perforation unit in either or both of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

DOCKET: EXAMINER HEARING - WEDNESDAY - AUGUST 8, 1962

9 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM,  
STATE LAND OFFICE BUILDING - SANTA FE, NEW MEXICO

The following cases will be heard before Daniel S. Nutter, Examiner, or Elvis A. Utz, as alternate examiner:

CASE 2009:

(Reopened)

Application of Gulf Oil Corporation for a four-month extension of the effectiveness of Order No. R-1726, Lea County, New Mexico. Applicant, in the above-styled cause, seeks a four-month extension of the effectiveness of Order No. R-1726, which established a temporary 200-acre non-standard gas proration unit in the SW/4 and the SW/4 SE/4 of Section 23, Township 22 South, Range 37 East, Blinebry Gas Pool, Lea County, New Mexico.

CASE 2612:

Application of Texaco Inc. for a tubing exception, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to produce its C. C. Fristoe (b) NCT-2 Well No. 6, located in Unit H of Section 35, Township 25 South, Range 37 East, Lea County, New Mexico, North Justis-Devonian Pool, through a string of 1 1/2 inch OD tubing run with a packer inside of a 2 7/8 inch OD casing.

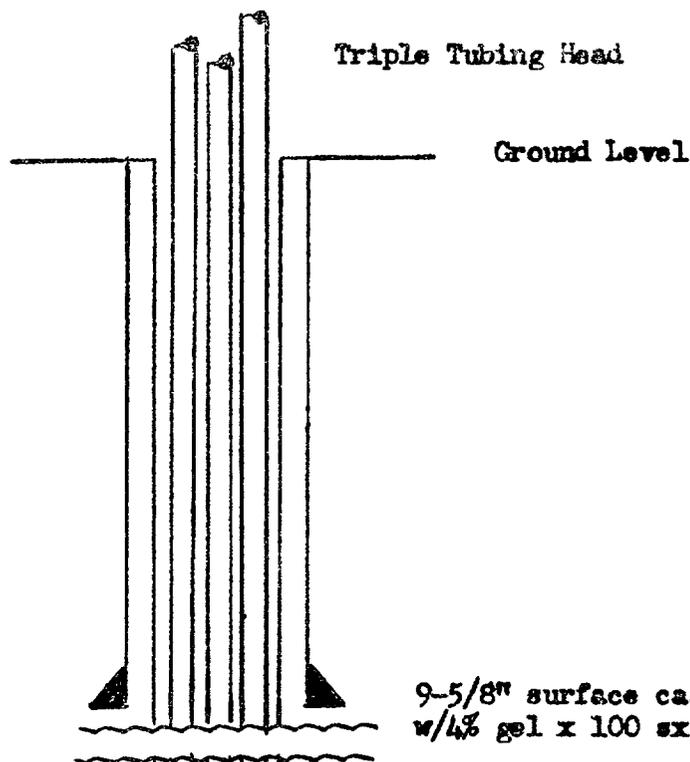
CASE 2613:

Application of Shell Oil Company for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its Middleton Federal "A" Well No. 1, located in Unit H of Section 18, Township 19 South, Range 32 East, Lea County, New Mexico, as a triple completion (conventional) in the Bone Spring, Wolfcamp and Pennsylvanian formations, with the production of oil from all zones to be through parallel strings of 2 3/8 inch tubing.

CASE 2614:

Application of Pan American Petroleum Corporation for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its USA H. V. Pike Well No. 1, located in Unit A of Section 6, Township 23 South, Range 38 East, Lea County, New Mexico as a triple completion (conventional) in the Blinebry Oil Pool, Tubb Gas Pool and Drinkard Oil Pool, with the production of oil from the Blinebry and Drinkard formations and gas from the Tubb formations through parallel strings of tubing.

- CASE 2615: Application of Aztec Oil & Gas Company for a waterflood project, Lea and Eddy Counties, New Mexico. Applicant, in the above-styled cause, seeks permission to institute a waterflood project in the Robinson Grayburg-San Andres Oil Pool in an area underlying the E/2 SE/4 and SW/4 SE/4, Section 36, Township 16 South, Range 31 East and the SW/4 SE/4 Section 30 and the W/2, W/2 E/2, and SE/4 SE/4 of Section 31, Township 16 South, Range 32 East, Lea and Eddy Counties, New Mexico, with injection of water to be into the Grayburg formation in six injection wells, said project to be governed by the provisions of Rule 701.
- CASE 2616: Application of Tenneco Oil Company for a waterflood project, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks permission to institute a waterflood project in the Cha Cha-Gallup Oil Pool in an area underlying Section 31, Township 29 North, Range 13 West, San Juan County, New Mexico, with injection of water into the Gallup formation at an approximate depth of 5500-5700 feet, said project to be governed by the provisions of Rule 701.
- CASE 2355: (Reopened)  
In the matter of the application of H. L. Brown, Jr., and Clem E. George for establishment of special rules and regulations for the Bluit-Wolfcamp Gas Pool, Roosevelt County, New Mexico. Case 2355 will be reopened pursuant to Order No. R-2051 to permit the applicant and other interested parties to appear and show cause why the Bluit-Wolfcamp Gas Pool should not be developed on 160-acre proration units.
- CASE 2345: (Reopened)  
In the matter of the application of Continental Oil Company for the establishment of special rules and regulations for the Rattlesnake-Pennsylvanian Pool, San Juan County, New Mexico. Case 2345 will be reopened pursuant to Order No. R-2049 to permit the applicant and other interested parties to appear and show cause why the subject pool should not be developed on 40-acre proration units.
- CASE 2617: Application of Continental Oil Company for a dual completion, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its Rattlesnake Well No. 140, located in Unit H of Section 11, Township 29 North, Range 19 West, San Juan County, New Mexico, as a dual completion (conventional) in the Organ Rock and Pennsylvanian-Paradox formations in the Rattlesnake-Pennsylvanian Field, with the production of oil and gas from the Pennsylvanian-Paradox formation to be through 2 7/8-inch tubing at a depth of 6658 to 6710 feet, Applicant proposes to dispose of salt water into the Organ Rock formation at a depth of 4175 to 4320 feet through a parallel string of 2 7/8 inch tubing.



Triple Tubing Head

Ground Level

9-5/8" surface casing set at 1298' with 475 sx reg. neat w/4% gel x 100 sx 50-50 poemix Incor. Cement Circulated.

2-1/16" OD tubing (ID 1.69") set at 5680'

Upper Zone  
Blinebry

PERFORATIONS

Top 5672'  
Bottom 5893' 4 JSPP

Otis Type WA Production Packer set at 5975'  
2-1/16" OD tubing (ID 1.69") set at 5979'

Middle Zone  
Tubb

PERFORATIONS

Top 6199'  
Bottom 6264' 4 JSPP

Otis Type WA Production Packer set at 6470'

Lower Zone  
Drinkard

2-3/8" OD tubing (ID 1.995") set at 6841'  
PERFORATIONS

Top 6727'  
Bottom 6956' 4 & 2 JSPP

PBD - 7002'

TD - 7038'

7" Oil String casing set at 7038' with 680 sx Inferno neat cement. Top cement 2550'.

PAN AMERICAN PETROLEUM CORPORATION

Diagrammatic Sketch - Multiple Completion

U.S.A. H.V. Pike No. 1, Unit A, Section 6, T-23-S, R-38-E, Lea County, New Mexico

# R-38-E

T-22-S

T-23-S

W H Scarborough  
GULF

31

32

USA  
TEXAS

4 45.06 Ac. 3 45.22 Ac. 2 45.40 Ac. PIKE-FEDERAL 4 45.44 Ac. 4 45.34 Ac. 3 45.26 Ac.

Pike  
GULF OIL

USA  
PAN AMER  
105970  
S-1-GZ  
45.44 AC  
less ORR

(Anderson-Prichard)  
Triple Comp  
7-22-60  
5731 T.P.  
F52.41 BOPD/46ach  
7-22-60  
6106 T.P.  
2750 MCFPD+4280/D  
2-7-61  
6536 T.P.  
143.4 BOPD/36ach  
7-27-60

U.S.A. Elliott  
DeKALB

(Parcell  
WEINER et al.)

"Parcell"  
AND. PRICH.

"Parcell"  
WESTERN GAS

## LEGEND

-  Paddock
-  Blinebry Gas
-  Blinebry Oil
-  Tubb Gas
-  Tubb Oil
-  Drinkard

Dual  
10460  
6155 T.D.  
6155 P.B.  
6022 T.P.  
F11800 M/D  
5440 T.P.  
F170 B/D  
9-14-58

3858  
704 T.D.  
6485 T.P. (U Dr.)  
F96/8 W/ach  
11-6-45  
703 T.Yates  
611 T.S.A.  
1797 T.Glo.  
2747 T.Tubbs

4039  
62 T.D.  
6885 T.P. (U Dr.)  
F187/1064 ch  
8-19-45  
560 T.S.A.  
1802 T.Glo  
2717 T.Tubbs

3891  
6300 T.P. (U Dr.)  
F79.5/1064 ch  
11-14-45  
2010 T.Rue  
180 T.Yates  
450 T.S.A.  
1819 T.Glo  
2715 T.Tubbs

3762  
704 T.D.  
6975 T.P. (U Dr.)  
F114.4/1341 ch  
17/64 ch  
5-24-49  
7074 T.Rue  
4-516 T.C.T.  
4-795 T.Yates  
656 T.S.A.  
1800 T.Glo  
2750 T.Tubbs  
T.A. 4-30-58  
5220 P.B.

3856  
704 T.D.  
596 T.P. Blinebry  
F2400 MCF/D  
5740 T.P. Tubb  
F2400 MCF/D  
12-21-58

Dual  
10019  
704 T.D.  
7042 P.B.  
5982 T.P. Tubb.  
F2100 MCF  
6813 T.P. Drink.  
F27/D 1/2 ch.  
3-10-58

OWWO  
5545 T.P. Bl.  
F23160  
6050 T.P. Bl.  
F4500 M/D  
12-13-56  
P.B. 6255

CITIES SERVICE  
6898 T.P. (U Dr.)  
FPP 3671 Gms  
42.64 ch. (Dr. nk.)  
11-10-45  
11841 T.Glo

3214  
5870 T.D.  
5618-824  
F-9880+ (Paddock)  
58 WPD  
9-27-61

Dual  
10,073  
704 T.P.  
F2276 MCF/D  
6636 T.P. Drinkard  
F1500 MCF/D +  
1580 36/64 ch.  
4-29-58

Dual  
9809  
7106 P.B.  
6950 T.P. Dr.  
F73/D 29/4 ch  
5624 T.P. Blinebry  
F.55/D 4/64 ch.  
10-21-67

CITIES SERVICE  
43517  
80 Ac  
(2004-)  
3401  
T.D. 5805  
P.B. 5210  
Prod. Int.  
5155-80  
P-104 R/D  
3-4-61

Dual  
3825  
704 T.D.  
F-125 BOPD  
Perf. 5700-5850  
F-80 BOPD  
6-15-60

Dual  
10111  
7066 P.B.  
6100 T.P. Tubb  
F3450 M/D  
5556 T.P. Bline  
F312 3/5  
F408/D Drink.  
6-13-58

Dual  
3881  
3-1056  
5811 T.D.  
5808 P.B.  
5188 T.P. Blin.  
F280/D 7964 ch.  
12-23-58

Dual  
3388  
2702  
5257 P.B.  
5200 T.P. SA  
P.16/D.  
7-15-58

Dual  
3825  
704 T.D.  
F-125 BOPD  
Perf. 5700-5850  
F-80 BOPD  
6-15-60

Dual  
10111  
7066 P.B.  
6100 T.P. Tubb  
F3450 M/D  
5556 T.P. Bline  
F312 3/5  
F408/D Drink.  
6-13-58

Dual  
3881  
3-1056  
5811 T.D.  
5808 P.B.  
5188 T.P. Blin.  
F280/D 7964 ch.  
12-23-58

Dual  
3388  
2702  
5257 P.B.  
5200 T.P. SA  
P.16/D.  
7-15-58

**CLASS OF SERVICE**  
This is a fast message unless its deferred character is indicated by the proper symbol.

# WESTERN UNION TELEGRAM

**SYMBOLS**  
DL = Day Letter  
NL = Night Letter  
LT = International Letter Telegram

1201 (4-60)

W. P. MARSHALL, President

The filing time shown in the dash line on domestic telegrams is LOCAL TIME at point of origin. Time of receipt is LOCAL TIME at point of destination

LA29 SSA144

L HBA019 COLLECT=HOBBS NMEX 14 1107A MST=  
PAN AMERICAN PET CORP=  
ATTN V E STALEY BOX 68 HOBBS NMEX=  
CITIES SERVICE PET. CO. HAS NO OBJECTIONS TO YOUR PROPOSAL TO TRIPLE COMPLETE YOUR USA H V PIKE WELL #1 IN SECTION SIX TOWNSHIP 23 SOUTH RANGE 38 EAST LEA COUNTY NEW MEXICO=  
D D BODIE CITIES SERVICE PET CO.  
  
**ILLEGIBLE** *past*

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

**CLASS OF SERVICE**  
This is a fast message unless its deferred character is indicated by the proper symbol.

# WESTERN UNION TELEGRAM

**SYMBOLS**  
DL = Day Letter  
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1201 (4-60)

W. P. MARSHALL, President

The filing time shown in the dash line on domestic telegrams is LOCAL TIME at point of origin. Time of receipt is LOCAL TIME at point of destination

LA12 DA149

D LVA037 COLLECT=LUBBOCK TEX 14 929A CST=  
V E STALEY, SUPT=  
PAN AMERICAN PETROLEUM CO BOX 68 HOBBS NMEX=  
RE YOUR MULTIPLE COMPLETION. LOCATED SECTION SIX TOWNSHIP 23 SOUTH RANGE 38 EAST LEA COUNTY NEW MEXICO.  
THIS WILL ADVISE DEKALB AGRICULTURAL ASSN INC WAIVERS ANY OBJECTIONS=  
DEKALB AGRIC ASSN INC W C MONTGOMERY  
  
38327 720

**CLASS OF SERVICE**  
 This is a fast message unless by different character is indicated by the proper symbol.

# WESTERN UNION TELEGRAM

**SYMBOLS**  
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LA25 KB095

APR 16 10 10

K 33A192 PB=FAX OKLAHOMA CITY OKLA 16 1027A CST=  
 PAN AMERICAN PETROLEUM CORP=  
 BOX 68 HOBBS NMEX=  
 ATTENTION: MR V E. STAYLEY=  
 PLEASE BE ADVISED UNION TEXAS PETROLEUM HAS NO OBJECTION  
 TO PAN AM'S TRIPLE COMPLETION OF ITS U.S.A. H.V. PIKE  
 SECTION 6-23S-38E, LEA COUNTY, NEW MEXICO=  
 UNION TEXAS PETROLEUM A DIVISION OF ALLIED  
 CHEMICAL CORPORATION BY SAM F SHAKELY.

**CLASS OF SERVICE**  
 This is a fast message unless by different character is indicated by the proper symbol.

# WESTERN UNION TELEGRAM

**SYMBOLS**  
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 LT = International Letter Telegram

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BA71 88E246

K WBA067 COLLECT=HOBBS NMEX 13 205P MST=  
 E STALEY=  
 PAN AMERICAN PET CORP HOBBS NMEX=  
 WRITING GRANT WAIVER CONSENTING TO TRIPLE COMPLETION OF  
 H V PIKE WELL #1=  
 J R RUSSELL GULF OIL CORP.

ILLEGIBLE

110  
 11  
 121 charged

Class of Service

This is a fast message unless the deferred character is indicated by the proper symbol.

# WESTERN UNION TELEGRAM

W. P. MARSHALL, President

1961 (4-09)

SYMBOLS

DL=Day Letter

NL=Night Letter

LT=International Letter Telegram

The time shown in the date line on domestic telegrams is LOCAL TIME at point of origin. Time of receipt is LOCAL TIME at point of destination

LA92 DB308

*Den*  
*[Handwritten signature]*

D NDZOO COLLECT=FAX MIDLAND TEX 13-430P CST=  
V E STALEY, PAN AMERICAN PET CORP=  
BOX 68 HOBBS NMEX=

DEC 21 11 3 58

TEXACO INC HAS BEEN DULY NOTIFIED BY PAN AMERICAN PETROLEUM CORPORATION OF THEIR APPLICATION FOR THEIR # V PIKE WELL NO 1 AS A TRIPLE COMPLETION IN THE BRINKARD-OIL, BLINEBRY-OIL, AND TUBB-GAS POOLS, LEA COUNTY, NEW MEXICO. IT IS OUR UNDERSTANDING THAT THIS WELL IS LOCATED IN UNIT A, SECTION 6, T-23-S, R-38-E, LEACOUNTY, NEW MEXICO. TEXACO HAS NO OBJECTION TO PAN AMERICAN'S APPLICATION AND HEREBY WAIVES ALL RIGHT OF OBJECTION.

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING OUR SERVICE

proper symbol

## TELEGRAM

W. P. MARSHALL, President

1961 (4-09)

LT=International Letter Telegram

The time shown in the date line on domestic telegrams is LOCAL TIME at point of origin. Time of receipt is LOCAL TIME at point of destination

TEXACO INC W C LENZ GENERAL SUPERINTENDENT,  
DRILLING AND PRODUCTION

ILLEGIBLE

T 6 T-23-S-38-E

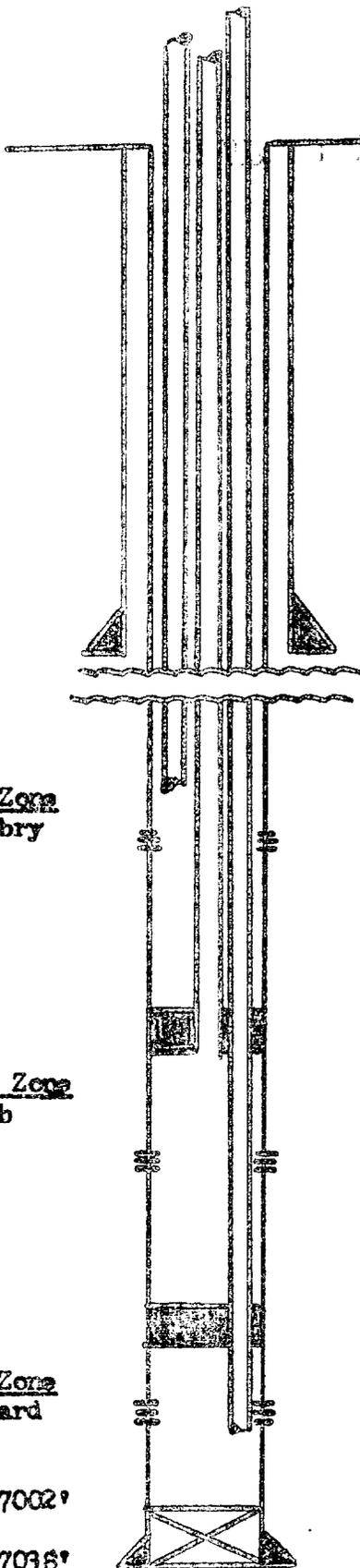
THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING OUR SERVICE

Triple Tubing Head

*Case File*

Ground Level

# 2614



9-5/8" surface casing set at 1298' with 475 sx reg. neat w/4% gel x 100 sx 50-50 posmix Incor. Cement circulated.

2-1/16" OD tubing (ID 1.69") set at 5753'

Upper Zone  
Blinebry

PERFORATIONS

Top 5672'  
Bottom 5893' 4 JSPP

Otis Type WA Production Packer set at 5975'  
2-1/16" OD tubing (ID 1.69") set at 5973'

Middle Zone  
Tubb

PERFORATIONS

Top 6199'  
Bottom 6264' 4 JSPP

Otis Type WA Production Packer set at 6470'

2-3/8" OD tubing (ID 1.995") set at 6852'

Lower Zone  
Drinkard

PERFORATIONS

Top 6727'  
Bottom 6956' 4 & 2 JSPP

PEH - 7002'

7" Oil String casing set at 7038' with 680 sx Inferno neat cement. Top cement 2550'.

ED - 7038'

PAN AMERICAN PETROLEUM CORPORATION

Diagrammatic Sketch - Multiple Completion Installation  
U.S.A. H. V. Pike No. 1, Unit A, Section 6, T-23-S, R-38-E, Lea County, New Mexico

EXHIBIT

PAN AMERICAN PETROLEUM CORPORATION  
APPLICATION FOR PERMISSION TO TRIPLE COM-  
PLETE ITS USA- H. V. PIKE WELL NO. 1,  
UNIT A, TOWNSHIP 23 SOUTH, RANGE 38 EAST,  
LEA COUNTY, NEW MEXICO IN THE BLINEBRY  
(OIL) TUBB (GAS) DRINKARD OIL POOLS OF  
LEA COUNTY.

CASE 2614

AUGUST 8, 1962

## DISCUSSION

Pan American Petroleum Corporation respectfully requests that the New Mexico Oil Conservation Commission grant permission to triple complete its USA H. V. Pike Well No. 1 in the Drinkard (oil) Tubb (gas) and Blinebry (oil) pools of Lea County, New Mexico.

Pike No. 1 is located 330 feet from the north and east lines of Section 6, T-23-S, R-38-E, which location is approximately seven miles southeast of Eunice, New Mexico.

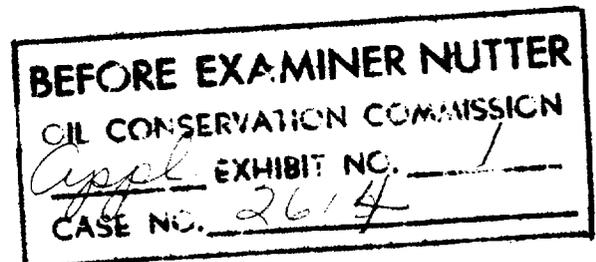
This well is in a multipay area as indicated on Attachment I, a plat of the area. The east offset to Pike No. 1, the Union Texas Western Federal No. 1 is a triple completion in the Drinkard (oil) Tubb (gas) and Blinebry (oil) zones. The north offset to Pike No. 1, Texaco Blinebry B NCT 1 No. 1, is a triple completion in these same zones. The west offset, Gulf Pike No. 1, is a dual completion in the Blinebry (oil) and Tubb (oil) pools.

Attachment II is a diagrammatic sketch showing the mechanical aspects of this triple completion. This is a "conventional" triple completion utilizing separate tubing strings to produce each zone separately and packers to maintain separation in the well bore. This installation will permit safe and efficient production of oil from these three reservoirs.

Waivers of objection to this application have been received from the offset operators. Attachments III A, B, C, D, and E are copies of telegrams from Cities Service Petroleum Company, De Kalb Agricultural Association, Union Texas Petroleum Company, Gulf Oil Corporation and Texaco, Inc. who operate offsetting leases.

Attachment IV is a Gamma-Ray Neutron Log of USA Pike No. 1 with the perforated intervals and tops and bottoms of the producing zones and the perforated intervals marked in red.

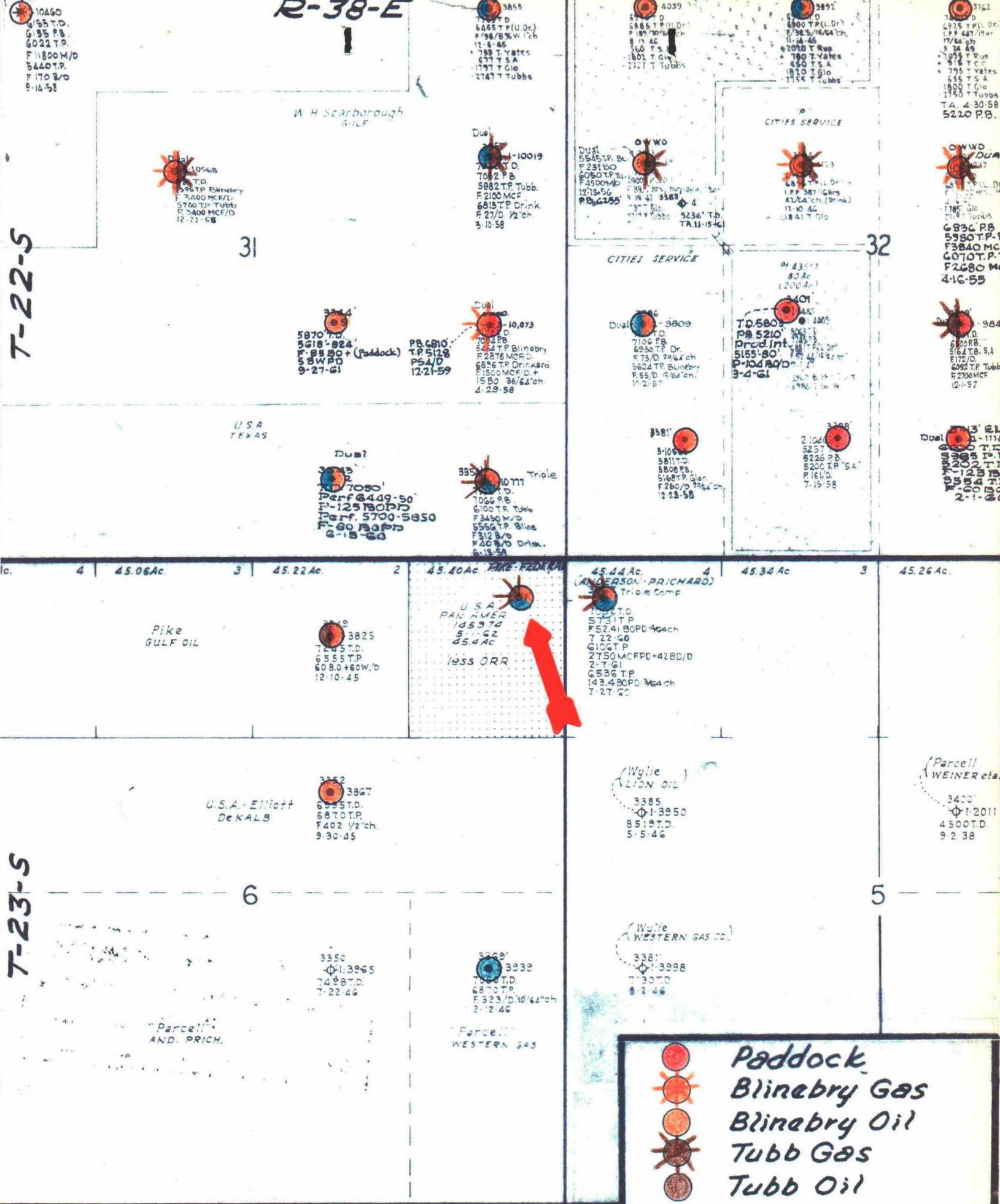
Attachment V presents, for convenience, a copy of Pan American's application for multiple completion of USA H. V. Pike No. 1.



# R-38-E

T-22-S

T-23-S



Dual  
10460  
655 T.D.  
655 P.B.  
6022 T.P.  
F 11800 M/D  
5440 T.P.  
F 170 B/D  
9-14-58

3858  
7527 D  
5485 T.P. (U. Dr.)  
F 9480 M/D  
11-4-45  
788 T Yates  
671 T S.A.  
1797 T Glo  
2747 T Tubbs

4039  
5971 D  
5885 T.P. (U. Dr.)  
F 18970 M/D  
8-13-46  
560 T.S.  
1802 T.Glo  
2727 T Tubbs

3897  
6900 T.P. (U. Dr.)  
F 3855 M/D  
11-14-45  
4202 T Res  
180 T Yates  
450 T.S.A.  
1810 T.Glo  
2755 T Tubbs

3762  
7527 D  
6915 T.P. (U. Dr.)  
F 18970 M/D  
8-13-46  
560 T.S.  
1802 T.Glo  
2727 T Tubbs  
TA. 4-30-58  
5210 P.B.

W. H. Scarborough  
GULF

Dual  
10568  
7527 D  
5967 P Blinebry  
F 3400 MCF/L  
5700 T.P. Tubb  
F 3400 MCF/D  
12-22-58

Dual  
10019  
7527 D  
7082 P.B.  
5882 T.P. Tubb  
F 2100 MCF  
6815 T.P. Drink  
F 2700 1/2 ch  
5-10-58

Dual  
5545 T.P. Bl.  
F 23100  
6080 T.P. Bl.  
F 4500 M/D  
12-15-56  
P.B. 4255

CITIES SERVICE  
3873  
6877 T.P. (U. Dr.)  
F 3877 G/L  
4214 ch (Drink)  
11-10-46  
2841 T.Glo

OWWO  
Dual  
6873  
6877 T.P. (U. Dr.)  
F 3877 G/L  
4214 ch (Drink)  
11-10-46  
2841 T.Glo  
C 836 P.B.  
5380 T.P. B  
F 3840 MCF  
C 070 T.P. T  
F 2680 MCF  
4-10-55

31

32

3344  
5870 T.D.  
5618-824  
F 3880 + (Paddock)  
5 BWP  
9-27-61

Dual  
10,073  
7527 D  
5424 P.B.  
5262 T.P. Blinebry  
F 2876 MCF/D  
6836 T.P. Drinkard  
F 1500 MCF/D +  
1580 36/64 ch  
4-29-58

Dual  
3809  
7106 P.B.  
6950 T.P. Dr.  
F 7370 20/64 ch  
5624 T.P. Blinebry  
F 65 D 4/64 ch  
10-21-57

CITIES SERVICE  
4307  
80 Ac  
1200 4-1  
401  
T.D. 580  
P.B. 520  
Prod. Int.  
5155-80  
P-104 B/D  
3-4-61

984  
7527 D  
6902 P.B.  
5164 T.B. S.A.  
F 1720  
6852 T.P. Tubb  
F 2700 MCF  
12-1-57

USA  
TEXAS

Dual  
7050  
Perf. 6449-50  
F-125 BOP/D  
Perf. 5700-5850  
F-60 BOP/D  
6-15-60

335  
10171 Triple  
7527 D  
1066 P.B.  
6100 T.P. Tubb  
F 2490 M/D  
5556 T.P. Bline  
F 312 B/D  
F 4080 D Drink.  
6-13-58

3881  
3-109  
8111 D  
8806 P.B.  
5168 T.P. Glo  
F 2800 29/64 ch  
12-23-58

3298  
2104  
5257  
6226 P.B.  
5200 T.P. S.A.  
P 161 D  
7-15-58

3 EL  
1116  
7527 D  
6902 P.B.  
5164 T.B. S.A.  
F 1720  
6852 T.P. Tubb  
F 2700 MCF  
12-1-57

Ac. 4 45.06 Ac. 3 45.22 Ac. 2 45.40 Ac. 4 45.44 Ac. 3 45.34 Ac. 3 45.26 Ac.

Pike  
GULF OIL

3825  
7527 D  
655 T.P.  
6080 + 60 W/D  
12-10-45

USA  
PAN AMER  
10570  
5-1-62  
45.44 Ac  
1955 ORR

(ANDERSON - PRICHARD)  
Triple Comp  
7527 D  
573 T.P.  
F 2741 BOP/D 46 ch  
7-22-60  
G 106 T.P.  
2750 MCF/D + 4280/D  
2-7-61  
6536 T.P.  
143.4 BOP/D 36 ch  
7-27-60

U.S.A. - Elliott  
De KALS

3352  
3867  
6955 T.D.  
6870 T.P.  
F 402 1/2 ch.  
9-30-45

(Wylie  
LION OIL)  
3385  
1-3350  
8519 T.D.  
5-5-46

(Parcell  
WEINER et al.)

3400  
1-2011  
4500 T.D.  
9-2-38

6

5

(Parcell  
AND. PRICH.)

3350  
1-3365  
7498 T.D.  
7-22-46

3368  
3393  
7527 D  
6870 T.P.  
F 323 D 10/64 ch  
2-12-46

(Wylie  
WESTERN GAS CO.)

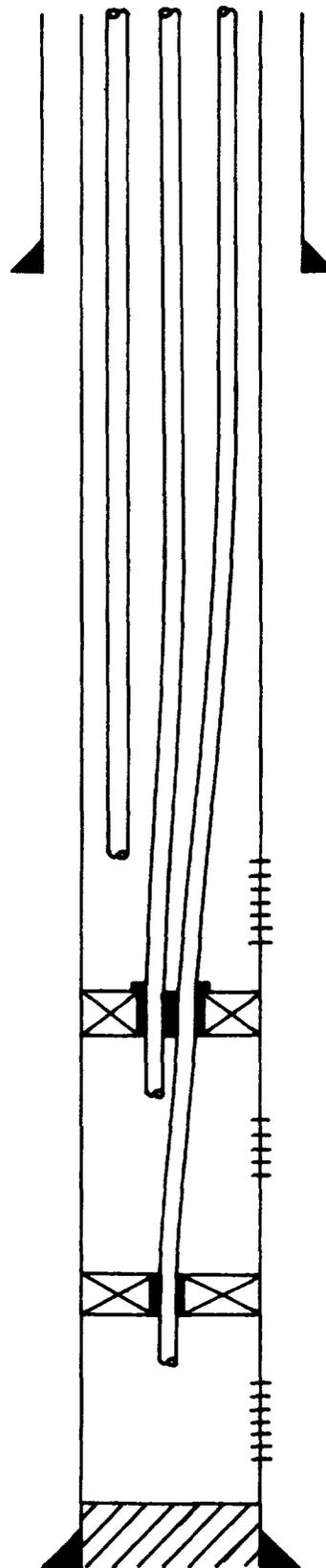
3381  
1-3398  
7-30 T.D.  
8-2-46

-  Paddock
-  Blinebry Gas
-  Blinebry Oil
-  Tubb Gas
-  Tubb Oil
-  Drinkard

2" OD Buttress Thread  
tubing (1.67" ID)  
at 5680'

2" OD Buttress thread tubing  
(1.67" ID) at 5979'

2 3/8" OD (1.995" ID) Tubing  
at 6841'



9 5/8" CSA 1298  
with 475 sx reg. cement  
plus 4% gel x 100 sx  
50-50 pozmix Incor. Cement  
circulated.

Blinebry Perfs 5672-74, 5678-80  
5686-88, 5706-08, 5736-38,  
5777-79, 5784-86, 5815-17,  
5854-56, 5875-77, 5891-93

Otis Type W A Packer set at  
5975 with Otis twin flow con-  
version unit for dual string  
installation

Tubb Perforations 6199-6201,  
6230-32, 6240-42, 6262-64

Otis Type W A Packer @ 6470

Drinkard Perfs  
6727-30, 6758-61, 6784-87  
6823-26, 6854-57, 6891-94  
6946-56

7" Oil String Casing  
Set at 7038 with  
680 sx neat Inferno cement.  
Top of Cement at 2550'

PBD 7002

TD 7038

PAN AMERICAN PETROLEUM CORPORATION

Diagrammatic Sketch Multiple Completion

Pan American Petroleum Corporation H. V. Pike No. 1

SCALE:

DRG  
NO.

CLASS OF SERVICE

This is a fast message unless its deferred character is indicated by the proper symbol.

# WESTERN UNION TELEGRAM

W. P. MARSHALL, President

1201 (4-60)

SYMBOLS

DL=Day Letter

NL=Night Letter

International Letter Telegram

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LA29 SSA144

L HBA019 COLLECT=HOBBS NMEX 14 1107A MST=

*1952 JUL 14 AM 11*

PAN AMERICAN PET CORP=

ATTN V E STALEY BOX 68 HOBBS NMEX=

CITIES SERVICE PET. CO. HAS NO OBJECTIONS TO YOUR PROPOSAL TO TRIPLE COMPLETE YOUR USA H V PIKE WELL #1 IN SECTION SIX TOWNSHIP 23 SOUTH RANGE 38 EAST LEA COUNTY NEW MEXICO=

D D BODIE CITIES SERVICE PET CO.

*PA 540P*

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

**CLASS OF SERVICE**  
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# WESTERN UNION TELEGRAM

W. P. MARSHALL, PRESIDENT

1201 (4-60)

**SYMBOLS**  
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LA12 DA149

D LUA037 COLLECT=LUBBOCK TEX 14 929A CST=~~DEC~~ JUL 14 AM 9 16

V E STALEY, SUPT=

PAN AMERICAN PETROLEUM CO BOX 68 HOBBS NMEX=

RE YOUR MULTIPLE COMPLETION. LOCATED SECTION SIX TOWNSHIP 25 SOUTH RANGE 38 EAST LEA COUNTY NEW MEXICO.

THIS WILL ADVISE DEKALB AGRICULTURAL ASSN INC WAIVERS ANY OBJECTIONS=

DEKALB AGRIC ASSN INC W C MONTGOMERY JR.

*LWC 1016A*

*38327*  
*170*  
 TO *17*  
 BY *PP* AT *540P* TO *B* *187 changed*

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

CLASS OF SERVICE

This is a fast message unless its deferred character is indicated by the proper symbol.

# WESTERN UNION TELEGRAM

W. P. MARSHALL, PRESIDENT

1201 (4-60)

SYMBOLS

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LT = International Letter Telegram

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LA25 KB095

1962 JUL 16 AM 10 10

K OCA192 PD=FAX OKLAHOMA CITY OKLA 16 1027A CST=

PAN AMERICAN PETROLEUM CORP=

BOX 68 HOBBS NMEX=

ATTENTION: MR V E. STAYLEY=

PLEASE BE ADVISED UNION TEXAS PETROLEUM HAS NO OBJECTION TO PAN AM'S TRIPLE COMPLETION OF ITS U.S.A. H.V. PIKE SECTION 6-23S-38E, LEA COUNTY, NEW MEXICO=

UNION TEXAS PETROLEUM A DIVISION OF ALLIED CHEMICAL CORPORATION BY SAM F SHAKELY.

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

Attachment III C

**CLASS OF SERVICE**  
This is a fast message unless its deferred character is indicated by the proper symbol.

# WESTERN UNION TELEGRAM

**SYMBOLS**  
DL = Day Letter  
NL = Night Letter  
LT = International Letter Telegram

1201 (4-60)

W. P. MARSHALL, PRESIDENT

The filing time shown in the date line on domestic telegrams is LOCAL TIME at point of origin. Time of receipt is LOCAL TIME at point of destination.

LA71 SSE246

L HBA067 COLLECT=HOBBS NMEX 13 205P MST= 1962 JUL 13 PM 2 20  
V E STALEY=  
PAN AMERICAN PET CORP HOBBS NMEX=  
HEREBY GRANT WAIVER CONSENTING TO TRIPLE COMPLETION OF  
YOUR W V PIKE WELL #1=  
J M RUSSELL GULF OIL CORP.

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

CLASS OF SERVICE

This is a fast message unless its deferred character is indicated by the proper symbol.

# WESTERN UNION TELEGRAM

W. P. MARSHALL, PRESIDENT

1201 (4-60)

SYMBOLS

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LA92 DB308

*IRM*  
*[Signature]*

D MDA200 COLLECT=FAX MIDLAND TEX 13 430P CST=  
 V E STALEY, PAN AMERICAN PET CORP=  
 BOX 68 HOBBS NMEX=

1962 JUL 13 PM 3 58

TEXACO INC HAS BEEN DULY NOTIFIED BY PAN AMERICAN  
 PETROLEUM CORPORATION OF THEIR APPLICATION FOR THEIR  
 H V PIKE WELL NO 1 AS A TRIPLE COMPLETION IN THE  
 DRINKARD-OIL, BLINEBRY-OIL, AND TUBB-GAS POOLS, LEA  
 COUNTY, NEW MEXICO. IT IS OUR UNDERSTANDING THAT THIS  
 WELL IS LOCATED IN UNIT A, SECTION 6, T-23-S, R-38-E,  
 LEACOUNTY, NEW MEXICO. TEXACO HAS NO OBJECTION TO PAN  
 AMERICAN'S APPLICATION AND HERELY WAIVES ALL RIGHT OF  
 OBJECTION=

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

unless its deferred character is indicated by the proper symbol.

# TELEGRAM

W. P. MARSHALL, PRESIDENT

1201 (4-60)

- LT = International Letter Telegram

The filing time shown in the date line on domestic telegrams is LOCAL TIME at point of origin. Time of receipt is LOCAL TIME at point of destination

TEXACO INC W C LENZ GENERAL SUPERINTENDENT,  
 DRILLING AND PRODUCTION==

1 6 T-23-S R-38-E.

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

*Attachment III E*