

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

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Tenneco Oil Company

3. ADDRESS OF OPERATOR

P.O. Box 3249, Englewood, CO 80155

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

At surface

790' FSL, 1040' FEL

At proposed prod. zone

Same as above

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approximately 8 miles NE of Blanco, New Mexico

10. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drilg. unit line, if any)

790'

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

16. NO. OF ACRES IN LEASE

2,264.04

19. PROPOSED DEPTH

6,075'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

312.49

20. ROTARY OR CABLE TOOLS

Rotary

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

6628' GR

22. APPROX. DATE WORK WILL START*

ASAP

23.

PROPOSED CASING AND CEMENTING PROGRAM

This action is subject to administrative
appeal pursuant to 50 CFR 250.

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	36#	+ 280'	Circ to surface
8-3/4"	7"	23#	+ 4075'	Circ to surface - 2 stages
6-1/4"	4-1/2"	10.5, 11.6#	+ 6075'	Circ to liner top

The gas is dedicated

See attached.

RECEIVED
FEB 27 1984
OIL CON. DIV.
DIST. 3

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

Dennis Wilson

TITLE Production Analyst

DATE October 18, 1983

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

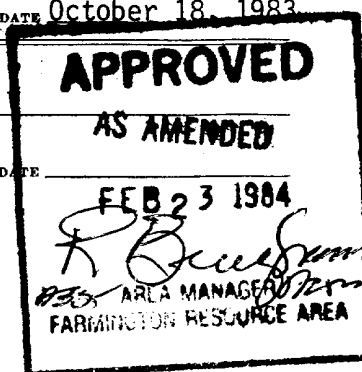
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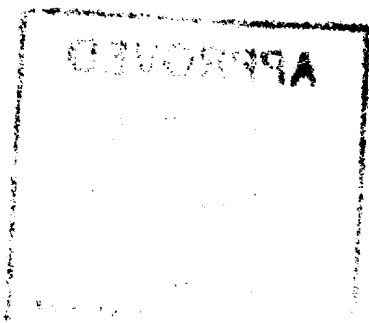
DATE

CONDITIONS OF APPROVAL, IF ANY:

NW 3-1025
ck7

*See Instructions On Reverse Side





OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-107
Revised 10-1-78

All distances must be from the outer boundaries of the Section.

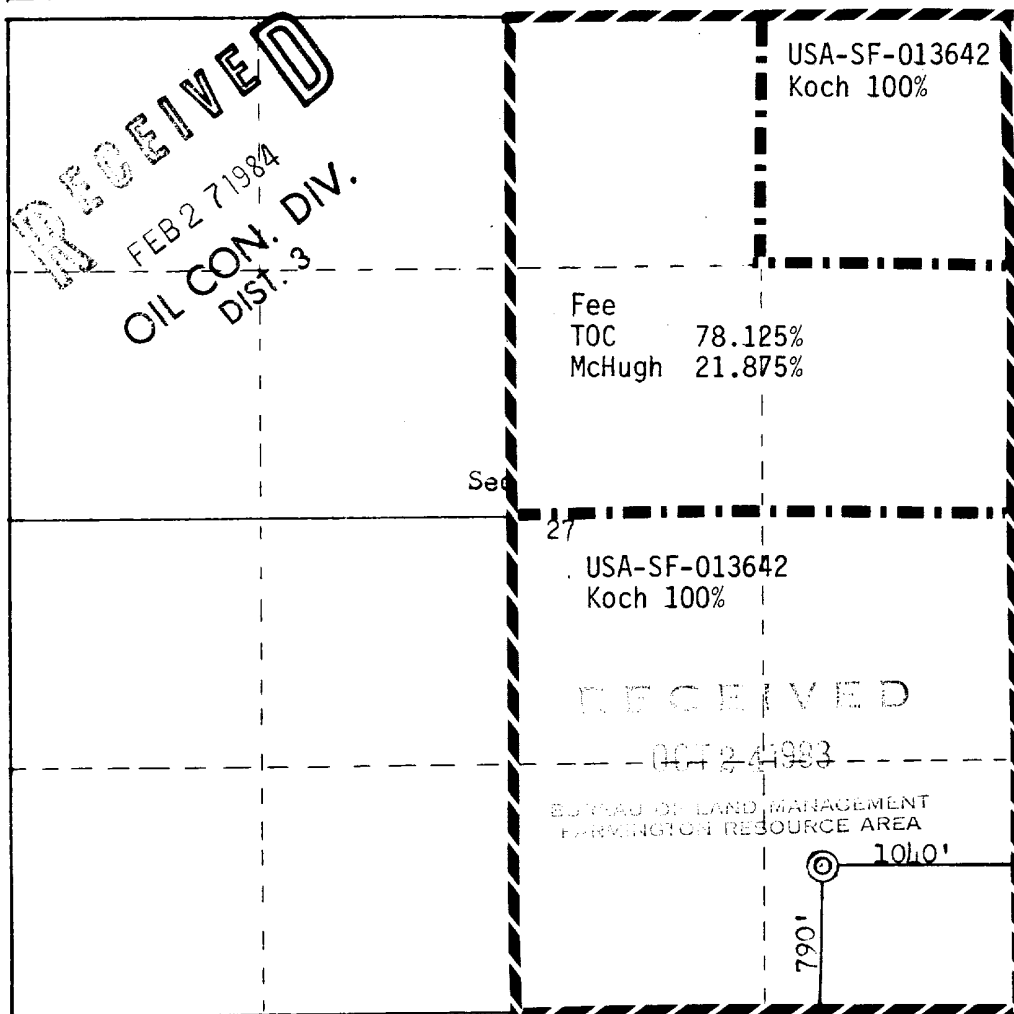
Operator Tenneco Oil Company			Lease Blancett Com		Well No. 1A
Unit Letter P	Section 27	Township 32N	Range 9W	County San Juan	
Actual Footage Location of Well: 790 feet from the South line and 1040 feet from the East line					
Ground Level Elev: 6628	Producing Formation Mesaverde	Pool Blanco Mesaverde	Dedicated Acreage: 312.49 Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes ☐ No If answer is "yes," type of consolidation communitization

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

Denise Wilson

Name

Denise Wilson

Position

Production Analyst

Company

Tenneco Oil Company

Date

October 17, 1983

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 supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

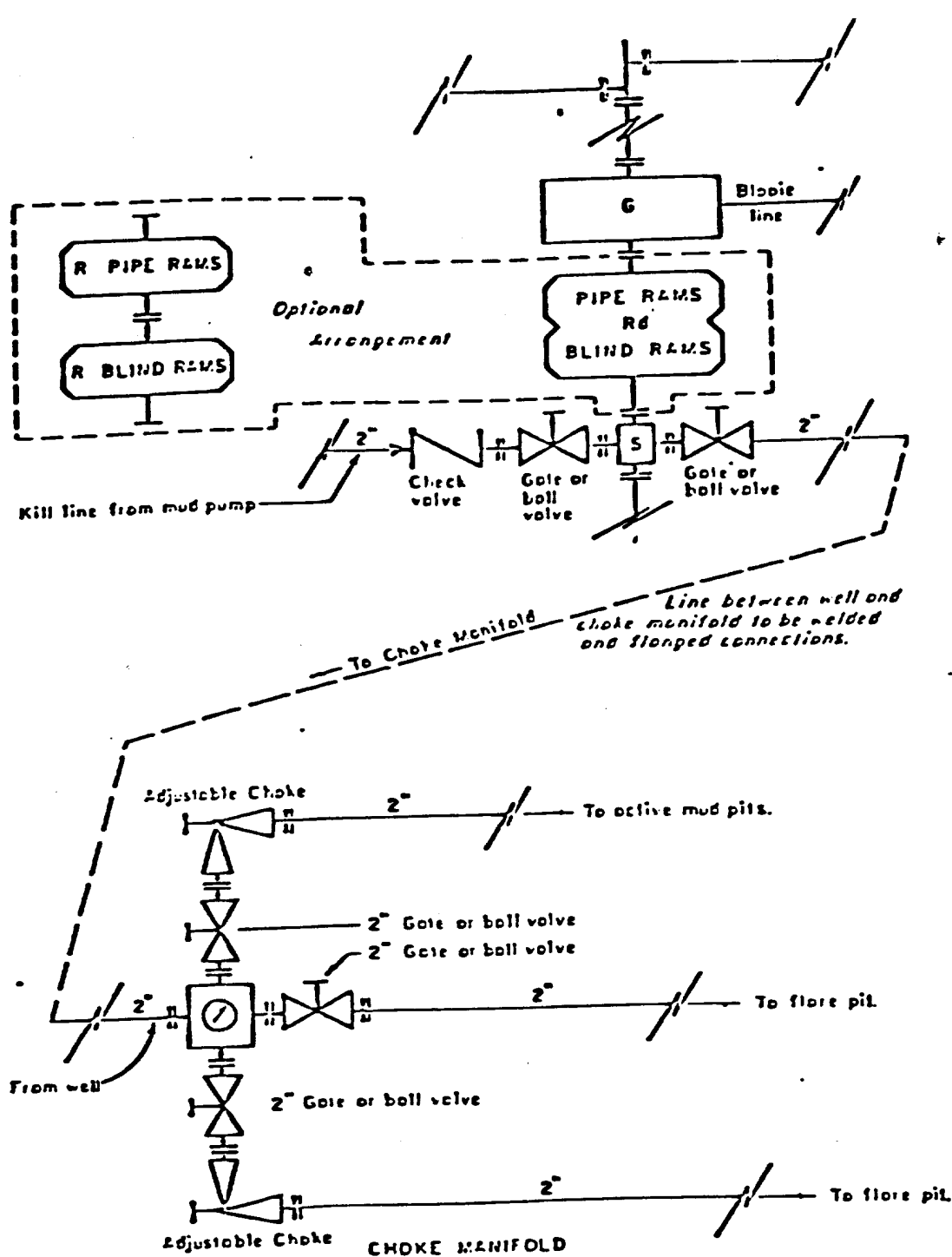
August 22, 1983

Registered Professional Engineer and Land Surveyor

Fred B. Kerr Jr.
Fred B. Kerr Jr.

Certificate No. 4

3950



All equipment to be 3,000 psi working pressure except as noted.

- Rd Double ram type preventer with two sets of rams.
- R Single ram type preventer with one set of rams.
- S Drilling spool with side outlet connections for choke and kill lines.
- G Rotating head 150 psi working pressure minimum

ARRANGEMENT C

TENNECO OIL COMPANY
ROCKY MOUNTAIN DIVISION
REQUIRED MINIMUM
BLOWOUT PREVENTER AND
CHOKE MANIFOLD

J. MAGILL 10-26-78 EVI

Doc. #1443M

TENNECO OIL COMPANY
WESTERN ROCKY MOUNTAIN DIVISION
6162 SOUTH WILLOW DRIVE
ENGLEWOOD, COLORADO 80155

DRILLING PROCEDURE

DATE: October 7, 1983

LEASE: Blancett Com WELL NO: #1A

LOCATION: 790' FSL, 1040' FEL FIELD: Blanco
Section 27, T32N, R9W
San Juan County, NM

ELEVATION 6,628' Est. G.L.

TOTAL DEPTH: 6,075'

PROJECTED HORIZON: Mesaverde

SUBMITTED BY: Mark Kangas

DATE: October 7, 1983

APPROVED BY: Mark Kangas

DATE: 10-7-83

CC: Administration
CRJ Well File
Field File

ESTIMATED FORMATION TOPS

Ojo	1710'	Water
Kirtland	1780'	
Fruitland	3060'	Gas, Water, Coal
Pictured Cliffs	3435'	Gas
Lewis	3575'	
Cliff House	5375'	Gas, Water
Menefee	5475'	
Point Lookout	5775'	Gas
TD	6075'	

DRILLING, CASING AND CEMENT PROGRAM

1. MIRURT
2. Drill a 12-1/4" hole to \pm 280 ft. with a gel water mud.
3. Rig up and run 9-5/8" 36# K-55 ST&C casing to bottom. Cement with Class B + 2% CaCl_2 in sufficient quantity to circulate cement to surface. If conditions warrant the use of loss circulation agents, 1/4 #/sx celloflake may be added. Wait on cement a minimum of 12 hours prior to drilling out.
4. While waiting on cement, screw on a 9-5/8" -8rd X 11 3M casinghead. NU BOP's. Pressure test casing, blinds, manifold and lines to 1000 psi for 30 minutes. GIH and drill pipe and test the pipe rams in the same manner. Record all tests on the IADC report sheet.
5. Drill out with an 8-3/4" bit and clear water. Drill to \pm 4075' or 500' into the Lewis Shale. Mud up prior to reaching intermediate T.D. Circulate at casing point a sufficient time to clean the hole to run logs and casing.
6. Log open intermediate hole as directed by G.E. Department.
7. Install casing rams, run 7" 23# K-55 casing equipped with a guide shoe to bottom, float collar one joint up and a stage collar 200' below the Ojo Alamo. Bakerlock from the shoe to the top of the float collar and run casing to bottom.

INTERMEDIATE CEMENTING PROGRAM

<u>FIRST STAGE</u>	<u>LEAD</u>	<u>TAIL</u>
Type		Cl B + 2% CaCl_2 + 1/4 #/sx flocele.
Sacks		150-200 sx
Slurry yield		1.18 cuft/sx
Mix weight		15.6 ppg
Water req's.		5.20 gal/sx

SECOND STAGE

LEAD

TAIL

Type	Howco Lite + 1/4 #/sx flocele + 2% CaCl ₂	Cl B + 2% CaCl ₂
Sacks	Calculated annular volume	50-75
Slurry yield	1.84 cuft/sx	1.18 cuft/sx
Mix weight	12.7 ppg	15.6 ppg
Water req's.	9.9 gal/sx	5.2 gal/sx

Precede the first stage with 20 bbls chemical wash and circulate two hours after opening the stage tool. Precede the second stage with 10 bbls "flow-check" or equivalent. If cement is not circulated to surface run a temperature survey after 6 hours to determine actual TOC as MMS requires. Wait on cement a total of 18 hours (from first plug down) before drilling is resumed.

8. Set slips with casing in full tension and cut-off. NU BOE and test as in procedure 4 above. Record tests on IADC report.
9. Drill out, dry up hole and drill a 6-1/4" hole to T.D. surveying as required.
10. Log open well as directed by GE department.
11. If productive, run 4-1/2" 11.6# and 10.5# K-55 casing as a liner. Equip the casing with a float shoe and latch down collar on the top of the first joint. No threadlock is to be used on this arrangement. Hang liner with a 150' lap in the intermediate casing.
12. Cement with a filler slurry as used for the intermediate string. Start with a 20 barrel mud flush, followed by the lead slurry with a fluid loss control additive and tail with 100 sx Cl B. Use sufficient quantity (50-75% excess) to circulate cement to the liner top.
13. Circulate out the excess cement, LDDP and MORT.
14. In non-productive, P & A as required by USGS.
15. Install tree and fence remainder of reserve pit.

CASING PROGRAM

<u>INTERVAL</u>	<u>LENGTH</u>	<u>SIZE</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>OPTIMUM MAKE-UP TORQUE</u>
0-280	280	9-5/8	36. #	K-55	STC 4230
0-4075	4075	7	23. #	K-55	STC 3090 LTC 3410
3925-6075	2150	4-1/2	10.5#	K-55	STC 1460

MUD PROGRAM

0-280'	Spud mud.
280-4075'	Low solid, fresh water mud. (Water and Benex.) Mud up prior to running casing. <u>EXPECT FRUITLAND TO KICK.</u>
4075'-T D	Gas

EVALUATION

Cores and DST's:

NONE.

Deviation Surveys

1. Survey surface hole at 100' intervals. Maximum allowable deviation at 500' is 1-1/2o
2. From surface to the Mancos formation, deviation surveys must be taken every 500'. In the Mancos/Gallup zones, surveys to be each 250'. Record all surveys in IADC Report book. Maximum allowable change in deviation is 1o per 100'. Maximum deviation allowable is 5o.

Samples:

As requested by Wellsite Geological Engineer

- Logs: 1. GR/SP/DIL 8 3/4": ICP to surface 6 1/4": TD to ICP
2. GR/Cal/FDC-CNL 8 3/4": TD 2000' min. 6 1/4": TD 2000' min.

BLOWOUT EQUIPMENT

11" - 3000 BOP with rotating head to comply with TOC requirements as shown in BOE arrangement, Figure C. Preventers must be checked for operation every 24 hours with each check recorded on the IADC Drilling Report Sheet.

REPORTS

Drilling Reports for the past 24 hours will include depth, footage, time distribution, activity breakdown, mud properties, bit record, bottom hole assembly, daily and cumulative mud cost, deviation surveys, and other pertinent information to be called into Division Office by 7:30 AM Monday thru Friday.

TENNECO OIL COMPANY
P.O. Box 3249
ENGLEWOOD, COLORADO 80155
PHONE: 303-740-4800

OFFICE DIRECTORY

Charles R. Jenkins	740-2575
Ted McAdam	740-2576
Tom Dunning	740-4813
Mark Kangas	740-4810

In case of emergency or after hours call the following in the preferred order.

(1)	Mark Kangas	740-4810	Office
	Senior Drilling Engineer	973-8846	Home
(2)	Ted McAdam	740-2576	Office
	Drilling Engineering Supervisor	978-0724	Home
(3)	Charles R. Jenkins	740-2575	Office
	Division Drilling Engineer	987-2290	Home
(4)	Harry Hufft	771-5257	Home
	Division Production Manager		

TENNECO OIL COMPANY - 10 POINT PLAN

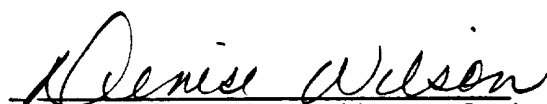
1. The geological name of the surface formation: Tertiary San Jose
- 2 & 3. Estimated formation tops: (see attached Drilling Procedure)
4. Proposed Casing Program: (see attached Drilling Procedure)
5. Blowout Preventors:

Hydraulic double ram. One set of rams will be provided each size drill pipe in the hole. One set of blind rams at all times. Fill line will be 2", kill line will be 2", choke relief line will be 2". BOP's, drills and tests will be recorded in the driller's log. BOP will be tested every 24 hours and recorded in IADC log.
6. Mud Program: (Sufficient quantity of mud and weight material will be available on location). (see attached Drilling Procedure)
7. Auxiliary Equipment:
 - a. Kelly cock will be in use at all times.
 - b. Stabbing valve to fit drill pipe will be present on floor at all times.
 - c. Mud monitoring will be visual. No abnormal pressures are anticipated.
 - d. Floats at bits.
 - e. Drill string safety valve(s) to fit all pipe in drill string will be maintained on the rig floor while drilling operations are in progress.
8. Coring, logging, and testing program: (see attached Drilling Procedure)
9. No abnormal pressures, temperatures or potential hazards such as H₂S are expected to be encountered.
10. The drilling of this well will start approximately (ASAP) and will continue for 10 to 12 days.

Your office will be notified of spudding in sufficient time to witness cementing operations. Immediate notice will be given on blowouts, fires, spills, and accidents involving life threatening injuries or loss of life. Prior approval will be obtained before appreciably changing drilling program or commencing plugging operations, plug back work, casing repair work or corrective cementing operations.

1. Existing Road - Please refer to Map No. 1 which shows the existing roads. New roads which will be required have been marked on this map. All existing and new roads will be properly maintained during the duration of this project.
2. Planned Access Roads - Please refer to Map No. 1. The grade of the access roads will be consistent with that of the local terrain. The road surface will not exceed twenty feet (20') in width. Upon completion of the project, the access road will be adequately drained to control soil erosion. Drainage facilities may include ditches, water bars, culverts or any other measure deemed necessary by trained Company personnel to insure proper drainage. Gates and/or cattleguards will be installed if necessary.
3. Location of Existing Wells - Please refer to Map No. 2
4. Location of Tank Batteries, Production Facilities, and Production Gathering and Service Lines - Please refer to Maps No. 1 and No. 2. Map No. 1 shows the existing roads and new proposed access roads. All known production facilities are shown on these two maps.
5. Location and Type of Water Supply - Water for the proposed project will be obtained from a private source.
6. Source of Construction Materials - No additional materials will be required to build either the access road or the proposed location.
7. Methods of Handling Waste Materials All garbage and trash materials will be put into a burn pit shown on the attached Location Plat No. 1. When clean-up operations are begun on the proposed project, the burn pit with its refuse will be buried to a depth of at least three feet (3'). A latrine will be provided for human waste. The reserve pit will be fenced on three sides prior to drilling; the fourth side will be fenced after drilling is complete. If large amounts of liquids are left in the reserve pit after completion of the project, the pit will remain fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying any of these materials into the watershed. No earthen pits will be located on natural drainage; all earthen pits will be so constructed as to prevent leakage from occurring.

8. Ancillary Facilities - No camps or airstrips will be associated with this project.
9. Wellsite Layout - Please refer to the attached profile and rig layout diagrams
10. Plans for Restoration of the Surface - After completion of the proposed project, the location will be cleaned and leveled. The location will be left in such a condition that will enable reseeding operations to be carried out. Seed mixture as designated by the responsible government agency will be used. The reseeding operation will be performed during the time period set forth by the regulatory body. The location production equipment will be painted as designated by the responsible government agency.
11. Other Information - Location is situated at the base of a canyon slope. This canyon is unnamed and empties southeast into Box Canyon. Vegetation includes sage, juniper, pinyon pine, broad leaf yucca, oak, prickly pear cactus, and mountain mahogany.
12. Operators' Representative - See drilling prognosis.
13. Certification - I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct, and that the work associated with the operations proposed herein will be performed by Tenneco Oil Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.


Denise Wilson, Production Analyst

DW:ch

RESERVE PIT

BURN PIT

DA 500
PUMP

H-25 PUMP

MUD PIT

UNIT

SUBSTRUCTURE



WATER TANK AND DOGHOUSE

LIGHT PLANT

RACKS

PIPE BASKET

CATWALK

PIPE BASKET

RACKS

RACKS

RIG LAYOUT

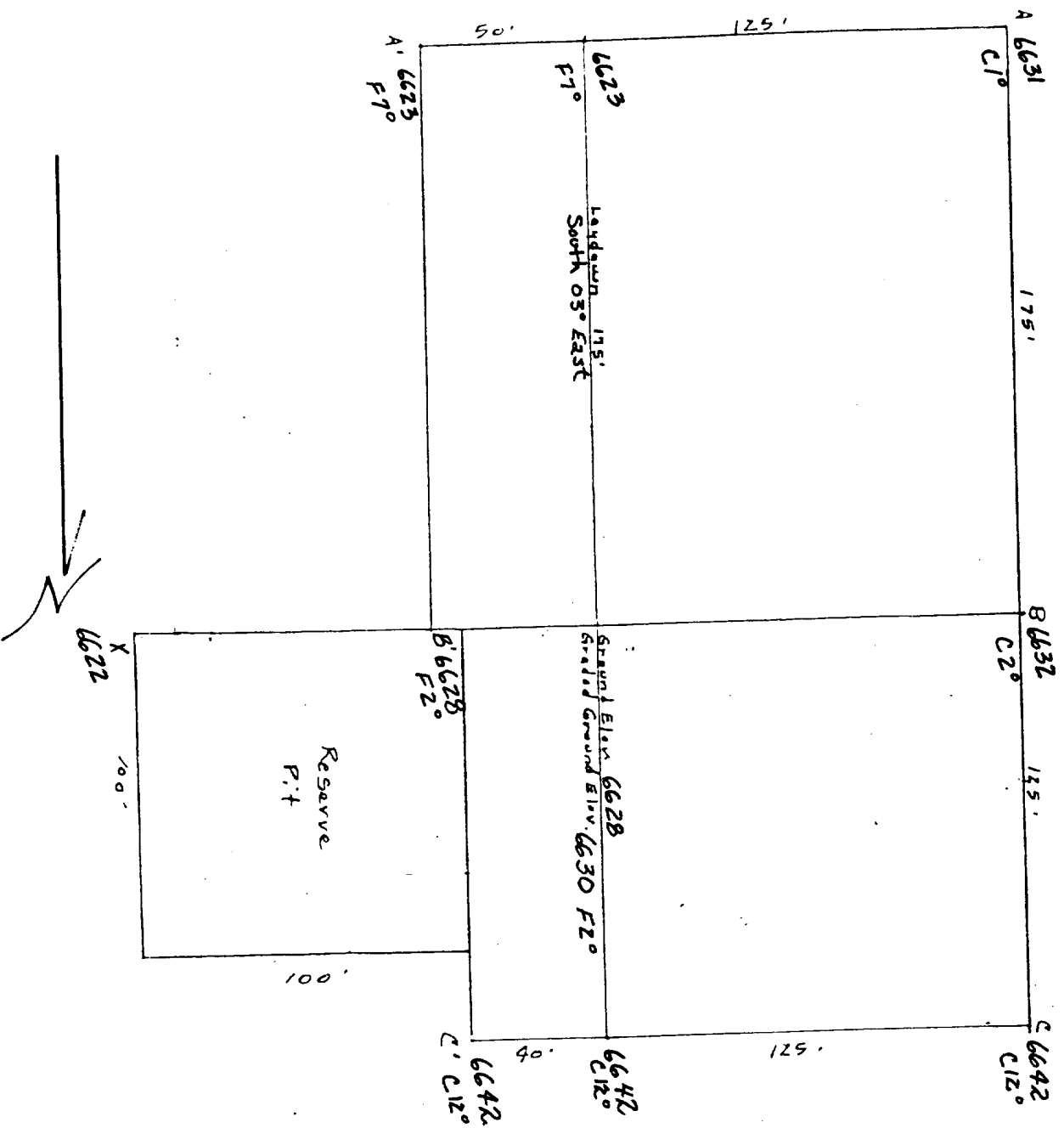
06

LA PLATA CO.

SAN JUAN CO.

T. 32 N.

Tenneco Oil Co 14 Bancett Com
7901 FSL 10401 FSL Sec. 27-32N-9W
San Juan County New Mexico



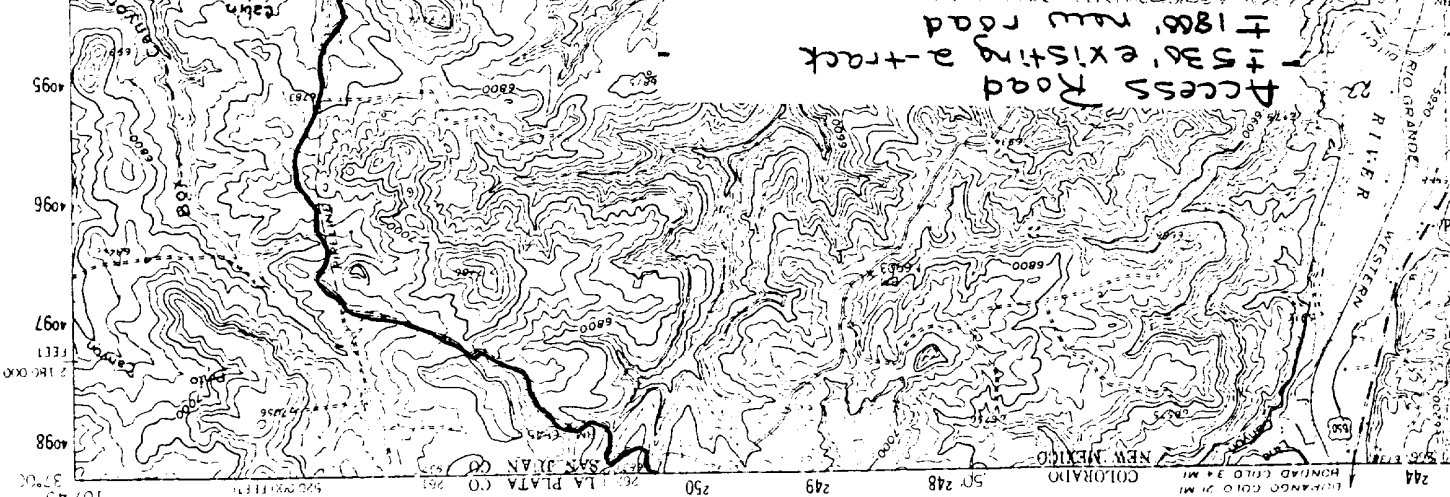
	A - A'	Vertical: 1"=30'	Horizontal: 1"=1'
6640			
6630			
6620			

	B - B'		
6640			
6630			
6620			

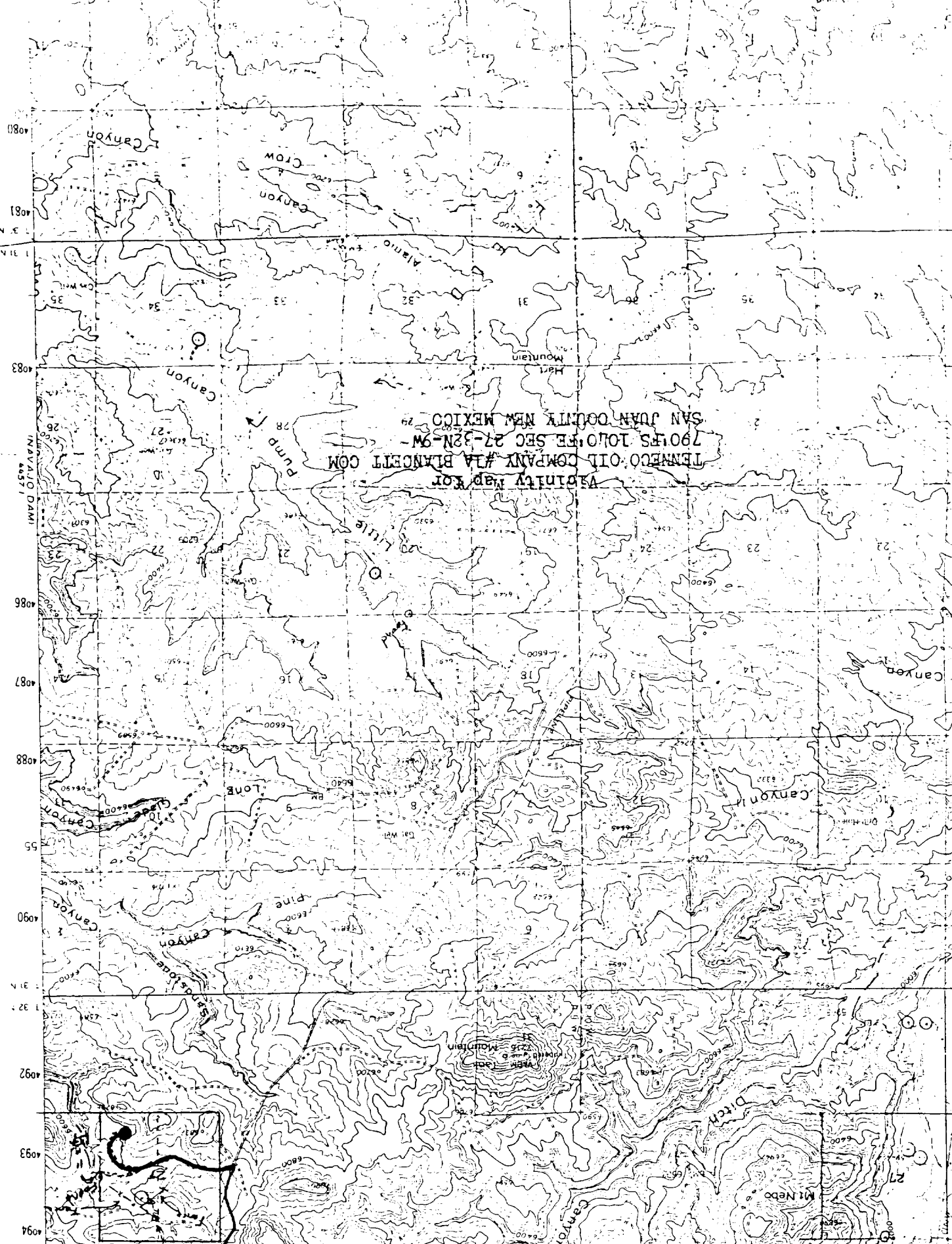
	$C - C'$				
6640		2			
6630		1			
6620					

AZTEC QUADRANGLE

15 MINUTE SERIES (TOPOGRAPHIC)
NEW MEXICO



Access Road
± 536' existing a + track
± 1800' new road



VIOLATION MAP FOR
TENNECO OIL COMPANY #1A BRANFLET COM
7901'S 101.0' E. SEC 27-32N-9W
SAN JUAN COUNTY NEW MEXICO