

THE APPLICATION OF GETTY OIL COMPANY
FOR A DUAL COMPLETION.

ORDER NO. MC-2982

ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION DIVISION

Under the provisions of Rule 112-A Getty Oil Co. made application to the New Mexico Oil Conservation Division on February 1, 1982, for permission to dually complete its C. W. Roberts Well No. 3-A located in Unit L of Section 18, Township 25 North, Range 3 West, NMPM, Rio Arriba County, New Mexico, in such a manner as to permit production of gas from the Blanco-Mesaverde Pool and oil from the Ojito-Dakota Pool.

Now, on this 4th day of February, 1982, the Division Director finds:

- (1) That application has been filed under the provisions of Rule 112-A of the Division's Rules and Regulations;
- (2) That satisfactory information has been provided that all operators of offset acreage have been duly notified;
- (3) That no objections have been received within the waiting period as prescribed by said rule;
- (4) That the proposed dual completion will not cause waste nor impair correlative rights; and
- (5) That the mechanics of the proposed dual completion are feasible and consonant with good conservation practices.

IT IS THEREFORE ORDERED:

That the applicant herein, Getty Oil Co., be and the same is hereby authorized to dually complete its C. W. Roberts Well No. 3-A located in Unit L of Section 18, Township 25 North, Range 3 West, NMPM, Rio Arriba County, New Mexico, in such a manner as to permit production of gas from the Blanco-Mesaverde Pool and oil from the Ojito-Dakota Pool through parallel strings of tubing.

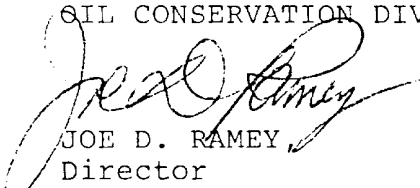
PROVIDED HOWEVER, that applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A.

PROVIDED FURTHER, that applicant shall take packer-leakage tests upon completion and annually thereafter.

IT IS FURTHER ORDERED: That jurisdiction of this cause is hereby retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


JOE D. RAMEY,
Director



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178

OIL CONSERVATION DIVISION
BOX 2088
SANTA FE, NEW MEXICO 87501

DATE 12-22-81

RE: Proposed MC α
Proposed DHC _____
Proposed NSL _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX _____

Gentlemen:

I have examined the application dated 12-9-81
for the Petty C.W. Roberts #3A L-18-25N-3w
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Approve

Yours truly,

Frank J. Chang

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
APPLICATION FOR MULTIPLE COMPLETION

Form C-107
5-1-61

Operator Getty Oil Company		County Rio Arriba		Date 11/16/81
Address P.O. Box 3360, Casper, WY 82602		Lease C.W. Roberts		Well No. 3-A
Location of Well 1.	Unit 18	Section 25N	Township 3W	Range 3W

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 _____ NO X _____
2. If answer is yes, identify one such instance: Order No. _____ ; Operator Lease, and Well No.: _____

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Blanco Mesa Verde	--	Ojito Gallup/Dakota
b. Top and Bottom of Pay Section (Perforations)	5254'-5870'		6894'-7930'
c. Type of production (Oil or Gas)	Gas		Oil
d. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing

4. The following are attached. (Please check YES or NO)

- | | | |
|-------------------------------------|-------------------------------------|---|
| Yes | No | |
| ☒ | ☐ | 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 diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent. |
| ☒ | ☐ | 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. |
| ☒ | ☐ | 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.* |
| ☐ | ☒ | 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.

Amoco Production Co. - 1670 Broadway - Denver, CO 80202

Conoco, Inc. - 555 17th St. - Denver, CO 80202

Southland Royalty Co. - 410 17th St., Suite 1000 - Denver, CO 80202

Beartooth Oil & Gas Co. - Box 2564, 305 Petroleum Building - Billings, MT 59103

Curtis J. Little, Consulting Geologist - Box 2487, 150 Petroleum Plaza Bldg. - Farmington, NM 87401

Schalk Development Co. - John E. Schalk - Box 25825 - Albuquerque, NM 87125

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 11/16/81.

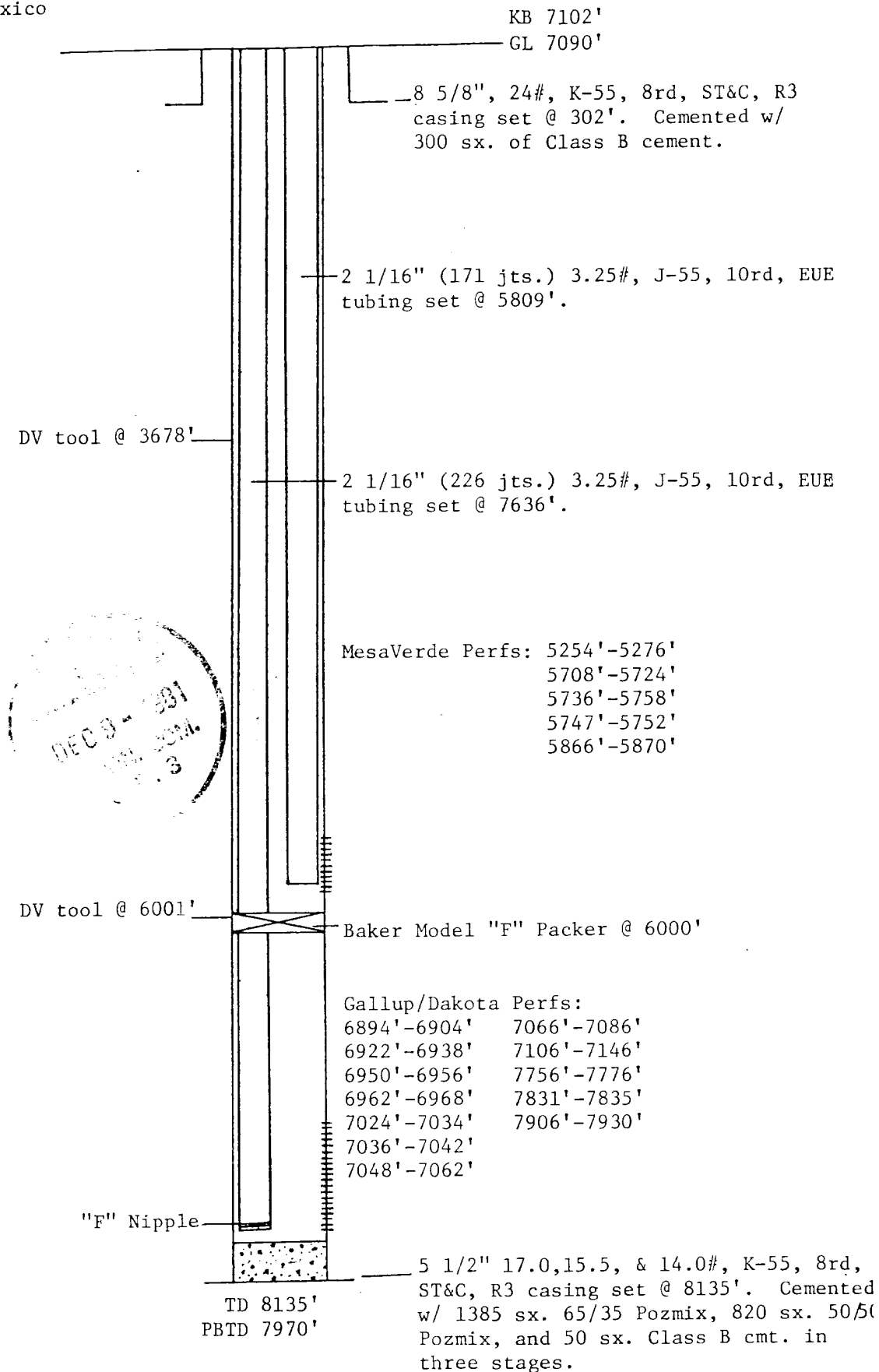
CERTIFICATE: I, the undersigned, state that I am the Area Superintendent of the Getty Oil Company (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete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


Signature

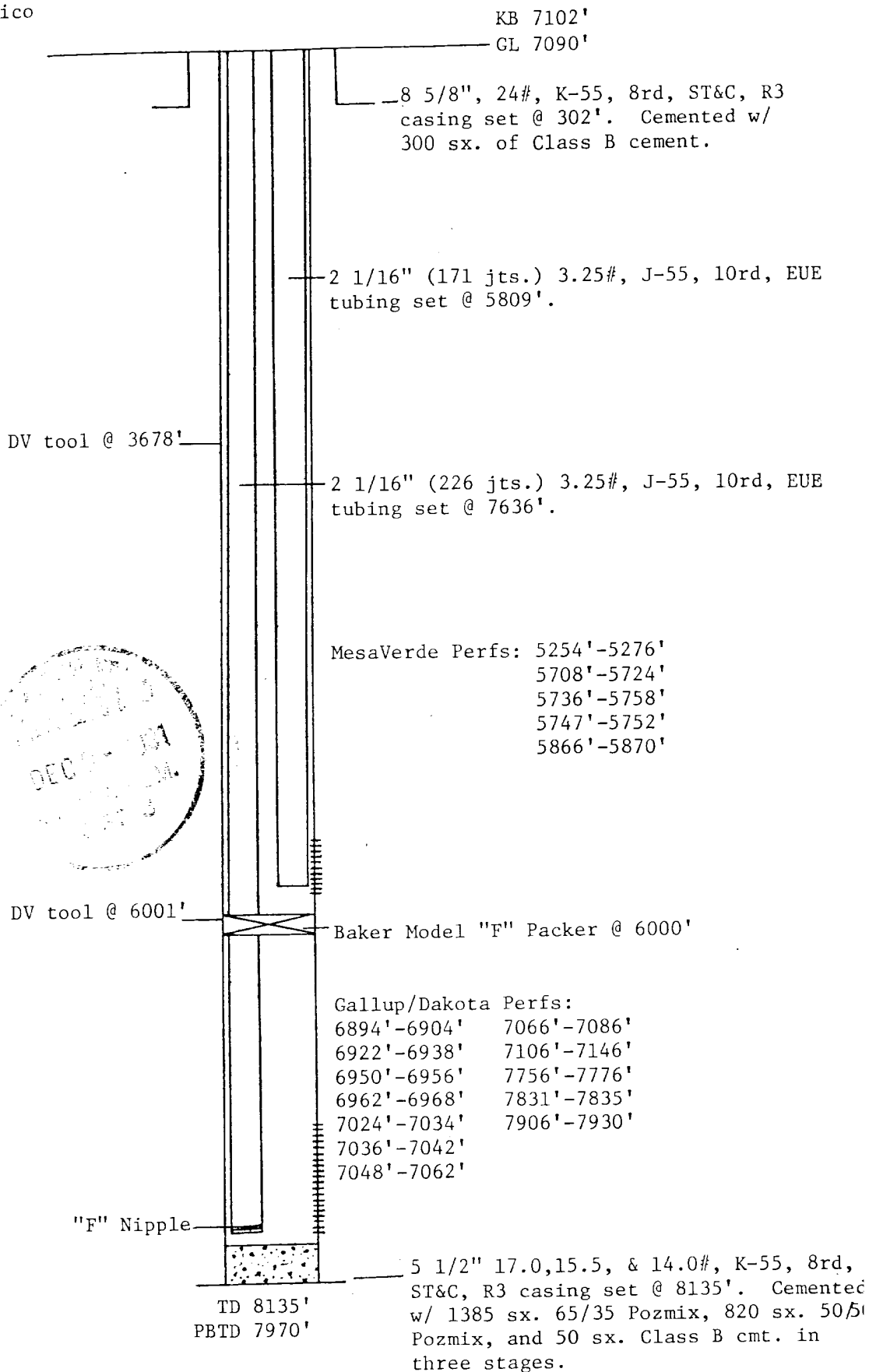
*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest 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 proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

C.W. Roberts #3-A
L Section 18 - T25N - R3W
Rio Arriba County, New Mexico



C.W. Roberts #3-A
L Section 18 - T25N - R3W
Rio Arriba County, New Mexico



179
7
6

CONOCO
Ymv
8/80
IPF 2393 MCFGPD

R 4 W

CONOCO
Kmv
9/80
IPF 1515 MCFGPD

12

CONOCO
Kmv
9/80
IPF 1757 MCFGPD

CONOCO
AXI Apache II
Kmv
2/77
504
337
TD 6250'

BEARTOOTH OAG



7

LITTLE

SOUTHLAND



Tstg

R 3 W



DEV. CO.
Kmv
11/79
221
63

8

DEV. CO.
Schalk 11-2
Kmv
7/79
240
148
TD 6014'

FGPD

SOUTHLAND
Ymv
6/79
220
175

CONOCO
Kmv
10/80
IPF 1766 MCFGPD

AMOCO
13
Jicartilla Apache 124-3

AMOCO
Kgl/Kd
7/80
IPF 100 0000
294 MCFGPD
144 8400

Kgl/Kd
11/79
31
9283
TD 8280'

GETTY
C.W. Roberts-3A
1410
PTD 8120'
(Kmv-Kgl/Kd)

18

GETTY
C.W. Roberts-3
Kmv
8/74
164
C.W. Roberts 397



Kd
Compl 1/58
P&A 1973
Cum 64,023 60

GETTY
C.W. Roberts-4
Kgl
4/74
7

Kd
Compl 7/58
P&A 1973
Cum 52,260 80

C.W. Roberts

AMOCO
Tstg

AMOCO
S.I.

24

751205

GETTY
Lydia Rentz-4
Kmv
6/74
129
458
Kd
Compl 6/58
P&A 1973
Cum 56,178 80
TD 8298'

19

Lydia Rentz

741121

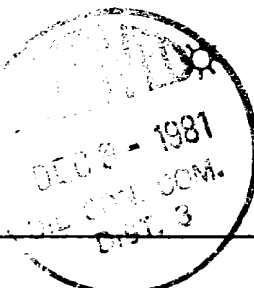
GETTY
Lydia Rentz-7
1447
PTD 8220'
(Kmv-Kgl/Kd)



751205

Lydia Rentz

741121



25

29

McConnell

McConnell

179
7
5

CONOCO
Kmv
8/80
IPF 2393 MCFGPD

R 4 W

CONOCO
Kmv
9/80
IPF 1515 MCFGPD

12

CONOCO
Kmv
9/80
IPF 1757 MCFGPD

CONOCO
AXI Apache 11
Kmv
2/77
504
337
TD 6250'

BEARTOOTH O&G
WOCT

7

LITTLE

SOUTHLAND
Tstg

R 3 W

SCHALK

DEV. CO.
Schalk 11-2
Kmv
11/79
221
63
7/79
240
148
TD 6014'

8

FCPD

SOUTHLAND
Kmv
6/79
209
179

CONOCO
Kmv
10/80
IPF 1766 MCFGPD

AMOCO
Bicentilla Apache 124-3
Kgi/Kd
11/79
31
9283
TD 8280'

AMOCO
Kgi/Kd
7/80
IPF 100 0000
294 MCFGPD
144 8400

AMOCO
S.I.

24

AMOCO
Tstg

751204
GETTY
C.W. Roberts -6
1442
PTD 8120'
(Kmv-Kgi/Kd)

GETTY
C.W. Roberts-3A
1410
PTD 8120'
(Kmv-Kgi/Kd)
Kmv
8/74
164
C.W. Roberts-3
Kd
Compl 1/58
P&A 1973
Cum 64,023 80

751205
GETTY
Lydia Rentz-4
Kmv
6/74
129
458
Kd
Compl 6/58
P&A 1973
Cum 56,178 80
TD 8298'

Lydia Rentz

741121

25

751204
GETTY
C.W. Roberts-5
Kgi/Kd
1/78
11
8427
TD 9210
GETTY
C.W. Roberts-4
Kgi
4/74
7
Kd
Compl 7/58
P&A 1973
Cum 52,260 80
C.W. Roberts
TD 8220'

751205
GETTY
Lydia Rentz-7
1447
PTD 8220'
(Kmv-Kgi/Kc)

Lydia Rentz

741121

29

McConnell

McConnell

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 10-10-81						
Company Getty Oil Company					Connection Not Connected						
Pool Blanco					Formation Mesa Verde						
Completion Date 9-29-81			Total Depth 8130		Plug Back TD 7970		Elevation 7090 G.L.		Farm or Lease Name C. W. Roberts		
Csg. Size 5.500	Wt. 17.00	d 4.892	Set At 8130	Perforations: From 5254 To 5870				Well No. 3A			
Tbg. Size 2.0625	Wt. 3.25	d 1.751	Set At 5809	Perforations: From 5804 To 5809				Unit L	Sec. 18	Twp. 25N	Rge. 3W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas Oil Multiple					Packer Set At 6000			County Rio Arriba			
Producing Thru Tubing		Reservoir Temp. °F a		Mean Annual Temp. °F		Baro. Press. - P _g 12.0		State New Mexico			
L 5809	H 5809	Gg .700	% CO ₂	% N ₂	% H ₂ S	Prover 2.000	Meter Run	Taps			

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI	216 Hours						735		1000		
1.	2.000	x .750					271	60	817		1st Hr.
2.	2.000	x .750					237	60	763		2nd Hr.
3.	2.000	x .750					220	60	735		3rd Hr.
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	11.000		283	1.000	1.195	1.033	384.2
2	11.000		249	1.000	1.195	1.029	336.8
3	11.000		232	1.000	1.195	1.027	313.2
4.							
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 1.000 to 1 BL	Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons 55 @ 60	Deq.
2.					Specific Gravity Separated Gas	XXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXX
4.					Critical Pressure P.S.I.A.	P.S.I.A.
5					Critical Temperature	R

P _c 1012	P _c ² 1024144	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.197$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3046$
NO.	P _t	P _w	P _w ²
1			
2			
3	53324	747	558009
4			
5			

Absolute Open Flow 5,652 Mcfd @ 15.025		Angle of Slope e	Slope, n .75
Remarks:			
Approved By Commission:	Conducted By: Wendell Durrett	Calculated By: Mark Kramer	Checked By: Paul D. Berhost

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator Getty Oil Co. Lease C. W. Roberts Well No. 3A
Location of Well: Unit 1 Sec. 18 Twp. 25N Rge. 3W County Rio Arriba
Name of Reservoir or Pool Type of Prod. Method of Prod. Prod. Medium
(Oil or Gas) (Flow or Art. Lift) (Tbg. or Csg.)
Upper Completion Blanco Mesa Verde Gas Flow Tubing
Lower Completion Ojito Gallup - Dakota Oil Flow Tubing

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Compl	Hour, date	Length of time shut-in	SI press. 783 TP	Stabilized? (Yes or No)
	10-1-81	216 Hrs.	psig 1000 CP	
Lower Compl	Hour, date	Length of time shut-in	SI press. 1100 TP	Stabilized? (Yes or No)
	10-1-81	216 Hrs.	psig	

FLOW TEST NO. 1

Commenced at (hour, date)*	Lapsed time since*	Pressure	Prod. Zone	Remarks
(hour, date)		Upper Compl. Lower Compl.	Temp.	
11:00 AM 10-10-81	11:00 AM		Upper	
11:15 AM	15 Min.	332-931	1100	60
11:30 AM	30 Min.	300-874	1100	60
11:45 AM	45 Min.	292-842	1100	60
12:00 Noon	1 Hr.	271-817	1100	60
1:00 PM	2 Hr.	237-763	1100	60
2:00 PM	3 Hr.	220-735	1100	60

Production rate during test TP CP

Oil: 40 BOPD based on 5 Bbls. in 3 Hrs. 55 Grav. AR
Gas: 3,132 MCFPD: Tested thru (Orifice or Meter): 3/4 Choke

ID-TEST SHUT-IN PRESSURE DATA

Upper Compl	Hour, date	Length of time shut-in	SI press. 1138	Stabilized? (Yes or No)
	10-10-81	164 1/2 Hr.	psig	
Lower Compl	Hour, date	Length of time shut-in	SI press. 1172	Stabilized? (Yes or No)
	10-1-81	380.5 Hr.	psig	

Commenced at (hour, date)**	Lapsed time since**	Pressure	Prod. Zone	Remarks
(hour, date)		Upper Compl. Lower Compl.	Temp.	
10-17-81				
10:45 AM	15 Min.	1138	0	Well died, waiting on swabbing unit - SI
10-28-81				Swabbing well
Swabbing		1150	1090-0	Shut in overnight
10-29-81	14 Hr. SI			Swabbing well
10:00 AM	Lower Zone	1150	840-0	Started flowing @ 11:00 AM
10-29-81				
12:00 Noon	1 Hr.	1150	235	Well flowing
10-29-81				
1:00 PM	2 Hrs.	1150	165	Well flowing
10-29-81				
2:00 PM	3 Hrs.	1150	120	Well flowing

Production rate during test

Oil: 200 BOPD based on 25 Bbls. in 3 Hrs. 46.4 Grav. GOR
Gas: 210 MCFPD: Tested thru (Orifice or Meter): 1" Orifice Plate

REMARKS:

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

Approved: _____ 19_____
Oil Conservation DivisionOperator Getty Oil CompanyBy Paul D. BarkerTitle Field Technician IVDate November 11, 1981

AIR FORCE TACTICAL LEAKAGE TEST INSTRUCTIONS

1. The cost of the well shall be determined on each multiple completed well on the basis of the actual production of the well, and annually thereafter, the well shall be automatically recomputed. The cost shall be determined on all multiple completions without regard to the number of perforations or fracture treatment. The cost shall be determined on a well during which the packer is set, and the well is abandoned. Costs shall also be taken at any time after the completion of work requested by the Division.

... of the results of the commencement of any packer leakage test, the Division is notified of the exact time the packer is installed. Packer operators shall also be so notified.

When the pressure in all zones when both zones of the dual zone system are stabilized. Both zones shall remain at the same pressure in each RA's stabilized, provided the pressure in the dual zone system more than seven days.

When the packer is in place, some of the dual completion shall be produced and the other zone shall be shut-in. The packer shall be set within 30 days in the case of a gas well and 60 days in the case of an oil well. Note: If, on an initial packer test, the well is not flowed to the atmosphere due to the lack of sufficient pressure, the flow period shall be three hours.

After the completion of Flow Test No. 1, the well shall again be shut-in and allowed to stabilize with pressure above

will be conducted even though no leak was indicated in the first run. For Flow Test No. 2 is to be the same as the first and the previously produced zone shall remain shut-in. A previously shut-in is produced.

7. Pressures for gas-zone tests must be measured on each zone with a deadweight pressure gauge at time intervals as follows: 3-hour tests: immediately prior to the beginning of each flow period, at fifteen-minute intervals during the first hour thereof, and at hourly intervals thereafter, including one pressure measurement immediately prior to the conclusion of each flow period. 7-day tests: immediately prior to the beginning of each flow period, at least one time during each flow period (at approximately the midway point) and immediately prior to the conclusion of each flow period. Other pressures may be taken as desired, or may be requested on wells which have previously been questioned in test logs.

24-hour oil zone tests: all pressures, throughout the entire test, shall be continuously measured and recorded with recording pressure gauges, the accuracy of which must be checked at least twice, once at the beginning and once at the end of each test, with a deadweight pressure gauge. If a well is a gas-oil or an oil-gas well completion, the recording gauge shall not be required on the oil zone only, with deadweight pressures as required above being taken on the gas zone.

8. The results of the above-described tests shall be filed in triplicate within 15 days after completion of the tests. Tests shall be filed with the Aztec District Office of the Oil Conservation Division on Northwest New Mexico Packer Leakage Test Form Revised 1-1-78, with all deadweight pressures indicated thereon as well as the following temperatures (air zones only) and gravity and GOR (oil zones only). A pressure versus time curve for each zone of each test shall be constructed on the reverse side of the Packer Leakage Test Form with all deadweight pressures and time taken indicated thereon. For oil zones the pressure curve should also indicate all key pressure changes which may be reflected by the recording gauge charts. These key pressure changes should also be tabulated on the front of the Packer Leakage Test Form.

[illegible]

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. ☐ Other _____

2. NAME OF OPERATOR

Getty Oil Company

3. ADDRESS OF OPERATOR

P.O. Box 3360, Casper, WY 82602

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

At surface 1650' FSL & 810' FWL of Section 18

At top prod. interval reported below Same

At total depth Same

14. PERMIT NO.

DATE ISSUED

--

4-22-81

5. LEASE DESIGNATION AND SERIAL NO.

SF-079600

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

--

7. UNIT AGREEMENT NAME

--

8. FARM OR LEASE NAME

C.W. Roberts

9. WELL NO.

3-A

10. FIELD AND POOL, OR WILDCAT

Blanco Mesa Verde/Ojito Gallup-

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

L. Section 18-T25N-R3W

12. COUNTY OR PARISH

Rio Arriba

13. STATE

New Mexico

15. DATE SPUDDED

6-3-81

16. DATE T.D. REACHED

6-27-81

17. DATE COMPL. (Ready to prod.)

9-28-81

18. ELEVATIONS (DF, REB, RT, GR, ETC.)*

7090' GR 7102' KB

19. ELEV. CASINGHEAD

--

20. TOTAL DEPTH, MD & TVD

8135'

21. PLUG, BACK T.D., MD & TVD

7970'

22. IF MULTIPLE COMPL., HOW MANY*

2

23. INTERVALS DRILLED BY

-->

ROTARY TOOLS

0'-8135'

CABLE TOOLS

--

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

Gallup/Dakota (comingled downhole) 6894'-7930'

25. WAS DIRECTIONAL SURVEY MADE

Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

DIL, CNL/FDC, CBL, & Tracer

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#	302'	12 1/4"	300 SX.	--
5 1/2"	17, 15.5, & 14#	8135'	7 7/8"	2255 SX.	--

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 1/16"	7636'	6000'

31. PERFORATION RECORD (Interval, size and number)

Perfed Gallup/Dakota w/ 192, 0.40" holes, 1 SPB as follows:

7024'-7034'	7756'-7776'
6894'-6904'	7036'-7042'
7831'-7835'	
6922'-6938'	7048'-7062'
7906'-7930'	
6950'-6956'	7066'-7086'
6962'-6968'	7106'-7146'

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6894'-7146'	5000 gal. 15% HCL & 153,000 # 20-40 sand w/ 79,000 gal. frac fluid.
7756'-7930'	1000 gal. 15% HCL & frac w/ 83,820 gal. frac fluid, 114,050 # 20-40 sd., 70,400 SCF of N ₂

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)					WELL STATUS (Producing or shut-in)	
10-17-81		Flowing					Shut-In	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO	
10-29-81	3	1"	→	25	40	36	1600	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)		
120	pkc.	→	200	210	288	46.4°		

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

Vented

TEST WITNESSED BY

Paul D. Berhost

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

TITLE Area Superintendent

DATE 11/18/81

*(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 35.

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37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CURED 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			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Gallup/Dakota	6894'	7930'		Ojo Alamo Kirtland Pictured Cliffs Cliffhouse (MV) Gallup Greenhorn Graneros Dakota	3116' 3238' 3543' 5220' 6854' 7656' 7720' 7747'	

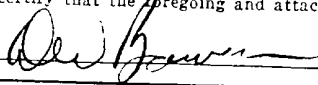
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 _____						5. LEASE DESIGNATION AND SERIAL NO. SF-079600	
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____						6. IF INDIAN, ALLOTTEE OR TRIBE NAME ---	
2. NAME OF OPERATOR Getty Oil Company						7. UNIT AGREEMENT NAME ---	
3. ADDRESS OF OPERATOR P.O. Box 3360, Casper, WY 82602						8. FARM OR LEASE NAME C.W. Roberts	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1650' FSL & 810' FWL of Section 18 At top prod. interval reported below Same At total depth Same						9. WELL NO. 3-A	
14. PERMIT NO. --- DATE ISSUED 4-22-81						10. FIELD AND POOL, OR WILDCAT Blanco MesaVerde/ Ojito Gallup-Dakota	
15. DATE SPUNDED 6-3-81 16. DATE T.D. REACHED 6-27-81 17. DATE COMPL. (Ready to prod.) 9-29-81						11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA L. Section 18-T25N-R3W	
18. ELEVATIONS (DF. R&B. RT. GR. ETC.)* 7090' GR 7102' KB						12. COUNTY OR PARISH Rio Arriba	
20. TOTAL DEPTH, MD & TVD 8135' 21. PLUG BACK T.D., MD & TVD 7970' 22. IF MULTIPLE COMPL., HOW MANY* 2						13. STATE New Mexico	
23. INTERVALS DRILLED BY ROTARY TOOLS 0'-8135' CABLE TOOLS ---						19. ELEV. CASINGHEAD ---	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 5254'-5870' MesaVerde						25. WAS DIRECTIONAL SURVEY MADE Yes	
26. TYPE ELECTRIC AND OTHER LOGS RUN DIL, CNL/FDC, CBL & Tracer						27. WAS WELL CORED No	
28. CASING RECORD (Report all strings set in well)							
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE	
8 5/8"		24#		302'		12 1/4"	
5 1/2"		17, 15.5, & 14#		8135'		7 7/8"	
						CEMENTING RECORD	
						300 SX.	
						2255 SX.	
						AMOUNT PULLED	

29. LINER RECORD							
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*	
						SCREEN (MD)	
30. TUBING RECORD							
SIZE		DEPTH SET (MD)		PACKER SET (MD)			
2 1/16"		5809'		6000'			
31. PERFORATION RECORD (Interval, size and number)							
Perfed MesaVerde w/ 69, 0.40" holes, 1 SPF:							
5254'-5276'		5847'-5852'					
5708'-5724'		5866'-5870'					
5736'-5758'							
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.							
DEPTH INTERVAL (MD)				AMOUNT AND KIND OF MATERIAL USED			
5254'-5870'				Acid w/ 2700 gal. 15% HCL and			
fraced w/ 71,500				gal. of frac gel & 132,000 #			
20-40 sand.							
33. PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
10-10-81		Flowing				Shut-In	
DATE OF TEST		HOURS TESTED		CHOKE SIZE		PROD'N. FOR TEST PERIOD	
10-10-81		3		3/4"		OIL—BBL. 5	
FLOW. TUBING PRESS.		CASING PRESSURE		CALCULATED 24-HOUR RATE		GAS—MCF. 431	
220#		735#		40		WATER—BBL. -	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)		3132 (IP)		-		OIL GRAVITY-API (CORR.) 55°	
Vented						TEST WITNESSED BY	
35. LIST OF ATTACHMENTS						Paul D. Berhost	
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							
SIGNED 		TITLE Area Superintendent				DATE 11/18/81	

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

INSTRUCTIONS

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FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Mesa Verde	5254'	5870'		Ojo Alamo Kirtland Pictured Cliffs Cliffhouse (MV) Gallup Greenhorn Graneros Dakota	3116' 3238' 3543' 5220' 6854' 7656' 7720' 7747'	

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

Form C-104
Revised 10-1-78

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

I. OPERATOR	
Operator	
Getty Oil Company	
Address	
P.O. Box 3360, Casper, WY 82602	
Reason(s) for filing (Check proper box)	
New Well ☒	Change in Transporter of:
Recompletion ☐	Oil ☐ Dry Gas ☐
Change in Ownership ☐	Casinghead Gas ☐ Condensate ☐
Other (Please explain)	

If change of ownership give name
and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name	Well No.	Pool Name, Including Formation	Kind of Lease	Lease No.
C.W. Roberts	3-A	Blanco MesaVerde	State of New Mexico Federal	SF-079600
Location				
Unit Letter <u>L</u> : <u>1650</u> Feet From The <u>South</u> Line and <u>810</u> Feet From The <u>West</u>				
Line of Section <u>18</u> Township <u>25N</u> Range <u>3W</u> , NMPLM, <u>Rio Arriba</u> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☐ or Condensate ☒	Address (Give address to which approved copy of this form is to be sent)
Plateau, Incorporated	P.O. Box 26251, Albuquerque, NM 87125
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☒	Address (Give address to which approved copy of this form is to be sent)
El Paso Natural Gas Company	P.O. Box 990, Farmington, NM 87401
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rge. Is gas actually connected? When
L 18 25N 3W	No --

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
		X	X					
Date Spudded 6-3-81	Date Compl. Ready to Prod. 9-29-81	Total Depth 8135'	P.B.T.D. 7970'					
Elevations (DF, RKB, RT, GR, etc.) 7090' GR 7102' KB	Name of Producing Formation MesaVerde	Top Oil/Gas Pay 5254'	Tubing Depth 5809'					
Perforations 5254'-5870' MesaVerde			Depth Casing Shoe 8135'					
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			
12 1/4"	8 5/8" 24#		302'		300 sx.			
7 7/8"	5 1/2" 17, 15.5 & 14#		8135'		2255 sx.			
--	2 1/16" 3.25#		5809'		--			

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test-MCF/D 3132	Length of Test 3 hrs.	Bbls. Condensate/MMCF --	Gravity of Condensate 55°
Testing Method (first, back pr.) BP	Tubing Pressure (Shut-in) 783#	Casing Pressure (Shut-in) 1000#	Choke Size 3/4"

CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.


(Signature)

Area Superintendent
(Title)

11/23/81

(Date)

OIL CONSERVATION DIVISION

APPROVED _____, 19____

BY _____

TITLE _____

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.

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

Form C-104
Revised 10-1-73

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

I. OPERATOR
Operator
Getty Oil Company
Address
P.O. Box 3360, Casper, WY 82602
Reason(s) for filing (Check proper box)
New Well ☒ Change in Transporter of:
Recompletion ☐ Oil ☐ Dry Gas ☐
Change in Ownership ☐ Casinghead Gas ☐ Condensate ☐
Other (Please explain)

If change of ownership give name
and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name C.W. Roberts Well No. 3-A Pool Name, including Formation Ojito Gallup/Dakota Kind of Lease ~~XXXXXXXXXXXX~~ Federal Lease No. SF-079600
Location
Unit Letter L : 1650 Feet From The South Line and 810 Feet From The West
Line of Section 18 Township 25N Range 3W, NMPM, Rio Arriba County

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☒ or Condensate ☐
Plateau, Incorporated Address (Give address to which approved copy of this form is to be sent)
P.O. Box 26251, Albuquerque, NM 87125
Name of Authorized Transporter of Casinghead Gas ☒ or Dry Gas ☐
El Paso Natural Gas Company Address (Give address to which approved copy of this form is to be sent)
P.O. Box 990, Farmington, NM 87401
If well produces oil or liquids, give location of tanks. Unit L Sec. 18 Twp. 25N Rge. 3W Is gas actually connected? No When --

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X) Oil Well ☒ Gas Well ☐ New Well ☒ Workover ☐ Deepen ☐ Plug Back ☐ Same Restv. ☐ Diff. Restv. ☐
Date Spudded 6-3-81 Date Compl. Ready to Prod. 9-28-81 Total Depth 8135' P.B.T.D. 7970'
Elevations (DF, RAB, RT, GR, etc.) 7090' GR 7102' KB (Comingled Downhole) Gallup/Dakota Top Oil/Gas Pay 6894' Tubing Depth 7636'
Perforations 6894'-7930' Gallup/Dakota Depth Casing Shoe 8135'
TUBING, CASING, AND CEMENTING RECORD
HOLE SIZE 12 1/4" CASING & TUBING SIZE 8 5/8" 24# DEPTH SET 302' SACKS CEMENT 300 sx.
7 7/8" 5 1/2" 17, 15.5, & 14# 8135' 2255 sx.
2 1/16" 3.25# 7636'

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks N/A Date of Test 10/29/81 Producing Method (Flow, pump, gas lift, etc.) Flowing
Length of Test 3 hours Tubing Pressure 120# Casing Pressure Packer Choke Size 1"
Actual Prod. During Test Oil-Bbls. 25 BC Water-Bbls. 36 BW Gas-MCF 210 MCFD

GAS WELL

Actual Prod. Test-MCF/D Length of Test Bbls. Condensate/MMCF Gravity of Condensate
Testing Method (purge, back pr.) Tubing Pressure (shut-in) Casing Pressure (shut-in) Choke Size

CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.


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(Title)

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