

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

Energy Reserves Group, Inc.

3. ADDRESS OF OPERATOR

P.O. Box 3280, Casper, Wyoming 82602

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

At proposed prod. zone 1850' FSL & 1110' FEL

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

Approximately 4.5 miles south east of Farmington, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any) 1,110'

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

2,500'

16. NO. OF ACRES IN LEASE

Unitized

19. PROPOSED DEPTH

1,570'

17. NO. OF ACRES ASSIGNED

TO THIS WELL

160

20. ROTARY OR CABLE TOOLS

Rotary

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

5,537' GR (ungraded)

22. APPROX. DATE WORK WILL START*

Nov.-Dec., 1980

23.

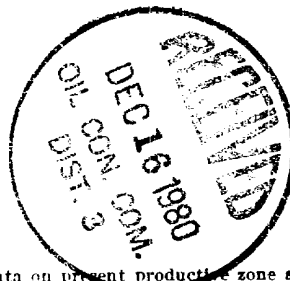
PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	120'	cement to surface
6-3/4"	4-1/2"	9.5#	1,570'	cement to surface

Energy Reserves Group, Inc. proposes to drill the above referenced well with rotary tools from the surface to T.D.

See attached plan of operations

Gas is dedicated to El Paso Natural Gas Company.



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

TITLE Field Services Administrator

DATE 9-18-80

(This space for Federal or State office use)

PERMIT NO.

APPROVED

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL

JAMES F. SIMS
DISTRICT ENGINEER

TITLE

DATE

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

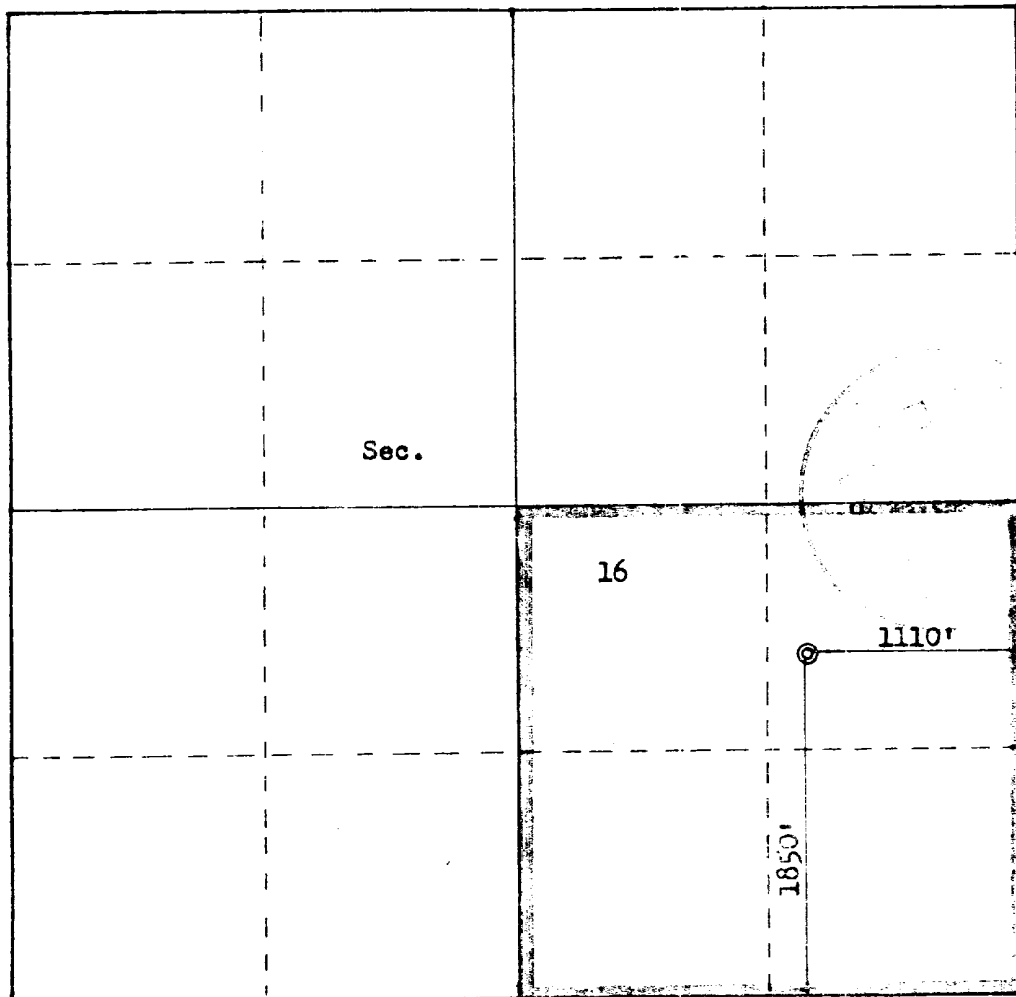
Operator ENERGY RESERVES GROUP			Lease GALLEGOS CANYON UNIT		Well No. 313
Unit Letter I	Section 16	Township 28N	Range 12W	County San Juan	
Actual Footage Location of Well: 1850 feet from the South line and 1110 feet from the East line					
Ground Level Elev. 5537	Producing Formation Pictured Cliffs		Pool West Kutz Pictured Cliffs		Dedicated Acreage: 160 Acres

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

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

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 communization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



Scale: 1"=1000'

CERTIFICATION

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

William J. Furt

Name
Field Services Administrator
Position
Energy Reserves Group, Inc.
Company
9-18-80
Date

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 21, 1980
Registered Professional Engineer
and Land Surveyor
Fred B. Kern Jr.
Certificate No. **10000**

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil ☐ gas ☒ other ☐
well well
2. NAME OF OPERATOR
Energy Reserves Group, Inc.
3. ADDRESS OF OPERATOR
Box 3280 Casper, Wyoming 82602
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: *1850' FSL & 1110' FEL*
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐

(other) *Change casing program*

SUBSEQUENT REPORT OF:

- ☐
☐
☐
☐
☐
☐
☐
☐

FEB 2 1981
U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

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

5. LEASE
I-149-IND-8475
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Allotted
7. UNIT AGREEMENT NAME
Gallegos Canyon Unit
8. FARM OR LEASE NAME
9. WELL NO.
313
10. FIELD OR WILDCAT NAME
West Kutz Gallegos Canyon-Pictured Cliffs
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 16, T28N-R12W
12. COUNTY OR PARISH
San Juan
13. STATE
N. Mexico
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)
5537 GR

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

*It is proposed to change the casing program on the above referenced well.**From - 0'-120' - 8 5/8" - 24#. K-55, ST&C - New Casing**To - 0'-120' - 7" - 17#. H-40, ST&C- New Casing*

Subsurface Safety Valve: Manu. and Type

Set @ Ft.

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

SIGNED *William J. [Signature]* TITLE *F. Services Adm.* DATE *2-23-81*

(This space for Federal or State office use)

APPROVED BY TITLE DATE
CONDITIONS OF APPROVAL, IF ANY:APPROVED
FEB 27 1981
DISTRICT ENGINEER
NMOCC
See Instructions on Reverse Side
OK

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil ☐ well gas ☒ well other ☐
2. NAME OF OPERATOR
Energy Reserves Group, Inc.
3. ADDRESS OF OPERATOR
P.O. Box 3280 - Casper, Wyoming
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below)
AT SURFACE: 1,850' FSL & 1,110' FEL (NE/SE)
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐

(other) Well History ☐

SUBSEQUENT REPORT OF:

☒
☐
☐
☐
☐
☐
☐
☐
☒

5. LEASE
1-149 - Ind - 8475
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NAV 8475 - Allotted
7. UNIT AGREEMENT NAME
Gallegos Canyon Unit
8. FARM OR LEASE NAME
9. WELL NO.
313
10. FIELD OR WILDCAT NAME
Kutz Pictured Cliffs West
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 16-T28N-R12W
12. COUNTY OR PARISH 13. STATE
San Juan New Mexico
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)
G.L. 5,537' - K.B. 5,539'

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

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

The above referenced well was spudded @ 11:00 AM 2-25-81.

Drilled 9-7/8" hole to 125' and set 7" O.D., 17#, K-55, R-3 casing set @ 123' w/65 sx of Class "B" cement w/2% CaCl₂ & 1/4# Flocele/sx. Plug down @ 5:00 PM 2-25-81. Good cement returns.

N.U. & pressure tested BOPE to 500 psi--held o.k.

Drilled 6-1/4" hole to 1,607' and ran logs.

Ran 49 jts 10.5#, CW-55, ST&C, R-2 new casing set @ 1,605'. Cemented w/250 sx of 50-50 Pozmix w/2% Gel, 0.5% CFR-2 & 1/4# Flocele/sx. Plug down @ 8:00 AM 2-28-81. Good cement returns.

3-2-81 - W.O.C.T.

Subsurface Safety Valve: Manu. and Type

Set @ _____ Ft.

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

SIGNED Dr. g Supt - RMD TITLE Dr. g Supt - RMD DATE 3-2-81

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

FOR RECORD
MAR 10 1981
BY [Signature]
FARMINGTON DISTRICT

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 Energy Reserves Group, Inc.															
3. ADDRESS OF OPERATOR P.O. Box 3280 - Casper, Wyoming 82602															
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1,850' FSL & 1,110' FEL (NE/SE) At top prod. interval reported below At total depth															
14. PERMIT NO.				DATE ISSUED											
15. DATE SPUDDED 2-25-81															
16. DATE T.D. REACHED 2-28-81															
17. DATE COMPL. (Ready to prod.) 5-11-81															
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* G.L. 5,537'; K.B. 5,539'															
19. ELEV. CASINGHEAD -----															
20. TOTAL DEPTH, MD & TVD 1,607' K.B.															
21. PLUG, BACK T.D., MD & TVD 1,572' K.B.															
22. IF MULTIPLE COMPL. HOW MANY* NA															
23. INTERVALS DRILLED BY Rotary Tools Cable Tools Surface to T.D.															
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 1,369'-384' K.B. Pictured Cliffs															
25. WAS DIRECTIONAL SURVEY MADE NO															
26. TYPE ELECTRIC AND OTHER LOGS RUN Induction Log, Density & Neutron Borehole Compensated Log															
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					
7"		17#		123' K.B.		9-7/8"		65 sx Class "C" w/2% CaCl & 1/4# Flocele/sx		2 -0-					
4-1/2"		10.5#		1,605' K.B.		6-3/4"		240 sx 50-50 Pozmix w/2% Gel, 1/4# Flocele/sk + 0.5% CFR-2		-0-					
29. LINER RECORD								30. TUBING RECORD							
Size		Top (MD)		Bottom (MD)		Sacks Cement*		Screen (MD)		Size		Depth Set (MD)		Packer Set (MD)	
										2-3/8"		1,394'		None	
31. PERFORATION RECORD (Interval, size and number)								32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.							
1,369'-71' 1,375'-78' w/1 JSPF 1,381'-84' (11 perfs)								DEPTH INTERVAL (MD) 1,369'-84'				AMOUNT AND KIND OF MATERIAL USED BD w/500 gal 7 1/2% MCA + acid + 17 ball sealers. Frac'd w/20,000 gal 70% Quality Foam w/22,500# 10-20 sand			
33.*								DIST. 3 PRODUCTION							
DATE FIRST PRODUCTION				PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in) SI							
DATE OF TEST 5-11-81		HOURS TESTED 12		CHOKE SIZE 3/8"		PROD'N. FOR TEST PERIOD →		OIL—BBL. NA		GAS—MCF. 106.5		WATER—BBL. 72.5		GAS-OIL RATIO NA	
FLOW. TUBING PRESS. 125 psi		CASING PRESSURE 225 psi		CALCULATED 24-HOUR RATE →		OIL—BBL. NA		GAS—MCF. 106.5		WATER—BBL. 72.5		OIL GRAVITY-API (CORR.) NA			
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) VENTED DURING TEST												TEST WITNESSED BY T.C. DURHAM			
35. LIST OF ATTACHMENTS SAMPLE DESCRIPTION ATTACHED															
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records															
SIGNED <u>Rosie Lopez</u>				TITLE <u>Production Tech - RMD</u>				DATE <u>5-20-81</u>				BY <u>RB</u>			

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

NMOCC

INSTRUCTIONS

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

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

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

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

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

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

37. SUMMARY OF POROUS ZONES:				38. GEOLOGIC MARKERS	
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES					
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH
					TRUE VERT. DEPTH
			See Attached	LOG TOPS	
				Nacimiento	Surface
				Ojo Alomo	80'
				Kirtland	182'
				Fruitland	1,048'
				Pictured Cliffs	1,364'
				Lewis	1,542'
				T.D. Logger	1,604'
				T.D. Driller	1,607'

SAMPLE DESCRIPTION

130 - 40 90% Ss: wht, transp, cg, sbrnd, lse, hard
10% Chert: lt org, cs-xln, ang-sbrnd, lse, hard

40 - 50 20% Ss: AA
80% Chert: lt org, wht, gry, opaque-transp, cs-xln, ang-sbrnd, lse, hard

50 - 60 30% Ss: AA
70% Chert: AA

60 - 70 40% Ss: AA
50% Chert: AA
10% Calcite: wht, opaque, cs-xln, lse, hard, vy calc

70 - 90 70% Ss: AA
20% Chert: AA
10% Calcite: AA
Tr. Pyrite: yel, metallic, nodular, hard

190 - 200 60% Ss: AA
30% Chert: AA
10% Calcite: AA

200 - 10 60% Ss: AA, wht, fg, sbrnd, vy cly fld, sft
40% Chert: AA, w/gry, brn
Tr. Mudstone: wht, plty-blky, vy sft

10 - 20 70% Ss: AA
30% Chert: AA

20 - 30 60% Ss: AA
30% Chert: AA
10% Shale: rdsh brn, sbang, frm

30 - 40 50% Ss: AA
20% Sh: AA
10% Chert: AA
20% Clystn: wht, plty-blky, sme wxy, vy sft

40 - 50 60% Ss: AA
30% Sh: AA
10% Clystn: AA

50 - 70 100% Ss: wht, transp, mg, sbrnd, lse

70 - 80 80% Ss: AA, wht, transp, mg, sbrnd, vy cly fld, sft
20% Chert: lt brn, gry, transp-opaque, ang-sbang, lse, hr

80 - 90 100% Ss: AA, w/grn, fg, sbrnd, cly fld, frm-hrd

290 - 300 10% Ss: AA
90% Sh: grn, gry, blk, sme sl slty, sft-frm

300 - 20 100% Ss: wht, lt grn, vfn-fg-cg, sbrnd, vy cly fld, vy sf

20 - 30 100% Ss: AA
Tr. Chert: smoky, cs-xln, ang, hrd, lse

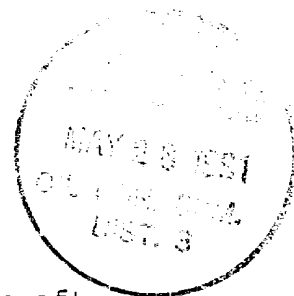
30 - 40 100% Ss: wht, grn, f-mg, sbrnd, sme vy cly fld, sme glauc
sme sft, tite
Tr. Sh: gry, blk, sl slty, frm

40 - 50 100% Ss: AA, w/sme vfn-g, grn
Tr. Calcite: wht, transl, cs-xln, hrd, lse, vy calc

50 - 60 100% Ss: wht, grn, vfn-g, sbrnd, sl cly fld, frm, tite
Tr. Pyrite: yel, metallic, drusy, hrd

60 - 70 90% Ss: AA, w/wht, fg, vy cly fld
10% Sh: gry, blk, sl slty, frm

70 - 80 60% Ss: wht, lt grn, gry, vfn-fg, sme vy cly fld, sme carb incl
40% Sh: gry, blk, sl slty, frm
Tr. Pyrite: AA and Tr. Chert: org, sbrnd, cr-xln, hrd, lse



380 - 90 10% Ss: AA
 80% Sh: AA, w/sme gry-grn
 10% Chert: AA
 390 - 400 60% Ss: wht, fg, sbrnd, vy cly fld, sme amber, sme carb
 incl, sft
 40% Sh: AA, w/sme sft
 Tr. Coal: blk, vit, sbrnd-blky, sft
 400 - 10 60% Ss: grn, vfn-g, sbrnd, sl cly fld, frm-hrd, tite
 40% Sh: AA
 10 - 20 70% Ss: AA, w/sme wht, mg, vy cly fld, w/sme carb incl
 30% Chert: AA
 Tr. Sh: AA
 20 - 30 50% Ss: AA
 40% Sh: gry-brn, blky, waxy, sft
 10% Chert: AA
 30 - 40 60% Ss: AA, w/wht, transp, vy cg, sbrnd, lse
 40% Sh: AA
 40 - 50 30% Ss: wht, grn, vfn-g, sbrnd-sbang, sme glauc, sme
 amber, sl-vy cly fld, sft
 70% Sh: gry, grn, blky-plty, sme slty, carb incl, sft
 50 - 60 50% Ss: AA
 50% Sh: AA
 60 - 70 60% Ss: AA, w/sme wht, mg, vy cly fld, w/glauc & amber
 30% Sh: AA
 10% Chert: org, red w/sme stained, cs-xln, ang-sbrnd,
 lse, hrd
 70 - 80 30% Ss: AA
 70% Sh: AA
 80 - 90 70% Ss: AA, w/mstly wht, mg, vy cly fld
 30% Sh: AA
 490 - 500 40% Ss: AA
 60% Sh: AA
 Tr. Chert: AA
 500 - 10 90% Ss: wht, fg, sbrnd, sme glauc, sme carb incl, vy cly
 fld, vy sft, tite
 10% Chert: org, red stained, cs-xln, lse, hard
 10 - 20 10% Ss: grn, fg, sbrnd-sbang, vy cly fld, frm-brittle
 90% Sh: gry grn, blky-plty, sme sl slty, sft
 20 - 30 50% Ss: wht, mg, sbrnd, carb incl, sme glauc, mod cly
 fld, wl cemented, frm-hrd, tite
 40% Sh: AA
 10% Coal: blk, vit, sme dissem pyrite, sft
 30 - 40 90% Sh: grn, blky-sbrnd, sl-vy slty, sft-hrd
 10% Chert: AA
 40 - 60 100% Sh: AA
 60 - 80 40% Ss: wht, fg, sbrnd, sme glauc, sme amber, vy cly fld,
 sft-frm, tite
 60% Sh: gry, grn, blky-plty, sme sl slty, w/carb incl
 580 - 600 60% Ss: AA
 40% Sh: AA
 600 - 10 80% Ss: wht, grn, vfn-g, sbrnd, sme carb incl, vy cly fld
 frm-brittle, sl-vy calc, tite
 20% Sh: gry, blky, sl-mod slty, sft
 10 - 20 80% Ss: AA, w/sme gry
 20% Sh: AA
 Tr. Chert: wht, cs-xln, ang, w/red stain, hard, lse

620 - 30 90% Ss: AA, w/mstly vfn-g
 10% Sh: AA
 Tr. Clystn: wht, blk, vy sft
 30 - 40 40% Ss: AA
 60% Sh: AA
 Tr. Chert: AA, w/org.
 40 - 50 80% Ss: wht, grn, gry, vfn-mg, sbrnd, sme carb, vy cly
 fld, sl ark, sme sft-hrd
 10% Sh: AA
 10% Chert: wht, lt org, cream, cs-xln, sbang-ang, hrd, lse
 50 - 60 20% Ss: wht, vfn-g, sbrnd, sme amber, sme glauc, vy cly
 fld, vy sft, tite
 60% Sh: lt gry, blk-plty, sft
 20% Clystn: wht, plty, vy sft
 60 - 70 30% Ss: AA, w/grn, fg
 60% Sh: AA
 10% Clystn: AA
 70 - 80 80% Ss: AA
 20% Sh: AA
 80 - 90 100% Ss: wht, lt grn, vfn-fg, sbrnd, carb incl, vy cly
 fld, sft
 690 - 700 80% Ss: AA
 20% Sh: gry-grn, blk, sme carb incl, sft
 Tr. Chert: wht, gry, red, cs-xln, lse, hard
 700 - 10 70% Ss: AA
 30% Sh: AA
 10 - 20 80% Ss: wht, lt grn, f-mg, sl ark, sme glauc, sft-fri,
 poss sl por
 20% Sh: AA
 20 - 30 80% Ss: wht, fg, sbrnd, sme glauc, sme carb, vy cly fld,
 vy sft, tite
 20% Sh: AA
 30 - 40 30% Ss: lt grn, fg, sbrnd, cly fld, frm
 70% Sh: lt gry, blk-plty, sft
 40 - 50 20% Ss: AA
 80% Sh: AA, w/sme grn
 Tr. Clystn: wht, blk, vy sft
 50 - 60 20% Ss: AA, but sft
 80% Sh: AA
 60 - 70 20% Ss: AA, w/frm-hrd
 80% Sh: AA, w/sme carb incl
 70 - 80 20% Ss: AA
 70% Sh: AA
 10% Clystn: wht, blk, vy sft
 80 - 90 30% Ss: gry, fg, sbrnd, carb incl, vy cly fld, frm,
 poss sl por
 70% Sh: gry, grn, blk-plty, sme carb incl, sft
 Tr. Chert: yel, cs-xln, lse, ang, hard
 790 - 800 40% Ss: AA
 60% Sh: AA, w/sme brn
 800 - 10 70% Ss: wht, fg, sbrnd, sl ark, sme glauc, sme amber,
 vy cly fld, tite
 30% Sh: gry, grn, blk, sme carb frags, sl slty, frm
 Tr. Pyrite: yel, metallic, drusy, hard
 10 - 30 20% Ss: AA
 80% Sh: AA, w/mstly grn
 30 - 40 10% Ss: wht, lt grn, fg, sbrnd, vy cly fld, dissem. pyrit
 grns, tite
 80% Sh: lt grn, gry, blk-plty, sme mod slty, sft
 10% Clystn: vy lt grn, blk, vy sft

840 - 50 20% Ss: AA
 70% Sh: AA
 10% Clystn: AA
 Tr. Chert: wht, transp, cs-xln, sme org & red staining,
 lse, hrd
 50 - 60 40% Ss: wht, f-mg, sbrnd, sme carb incl, vy cly fld, sft,
 tite
 60% Sh: AA
 60 - 70 10% Ss: wht, fg, sbrnd, sme glauc, vy cly fld, frm-brittle
 tite
 90% Sh: lt grn, brn, plty-blky, sme sl slty, sft
 Tr. Pyrite: yel, metallic, drusy, hrd, lse
 70 - 80 10% Ss: AA, w/sme grn, vfn-g
 80% Sh: AA
 10% Clystn: wht, blky, smooth, vy sft
 Tr. Chert: wht, org, cs-xln, ang-sbrnd, lse, hrd
 80 - 90 20% Ss: AA
 80% Sh: AA
 890 - 900 40% Ss: AA, w/lt gry, grn, fg, amber, glauc, mod cly fld,
 sft, tite
 60% Sh: AA
 Tr. Clystn: AA
 900 - 10 10% Ss: wht, vfn-g, sbrnd, sme carb incl, mod cly fld,
 vy sft, tite
 90% Sh: lt grn, gry, blky, sme sl slty, w/carb incl,
 and stringers, vy sft
 10 - 20 30% Ss: wht, grn, vfn-g, sbrnd, amber & carb incl, vy cly
 fld, vy sft, sme frm-brittle
 70% Sh: AA
 Tr. Calcite: wht, transl, cs-xln, hrd, lse, vy calc
 20 - 30 40% Ss: wht, fg, sbrnd, sl ark, sme glauc, sl cly fld,
 sme carb, fri, good por.
 60% Sh: lt grn, brn, blky-plty, sl slty, frm-sft
 Tr. Chert: wht, cs-xln, ang-sbrnd, lse, hard
 30 - 40 30% Ss: AA, w/sme sl calc, w/carb frags & stringers
 60% Sh: AA
 10% Chert: wht, yel, org, cs-xln, sbrnd, lse, hard
 Tr. Calcite: wht, transl, fn-xln, hrd (fract. fill)
 Tr. Pyrite: yel, met, hard, nodular
 40 - 50 100% Sh: lt grn, lt brn, blky-plty, sme carb incl, sft
 50 - 60 20% Ss: wht, fg, sbrnd, mod cly fld, sft, tite
 80% Sh: AA, w/sme mod-vy slty
 Tr. Chert: AA
 60 - 70 30% Ss: AA, w/sme grn, fg, frm
 70% Sh: gry, lt grn, plty-blky, carb incl, sft
 Tr. Chert: AA
 70 - 80 100% Sh: AA
 80 - 90 20% Ss: wht, lt brn, vfn-fg, sbrnd, carb incl, sme mod
 cly fld, sft-frm, poss sl por.
 80% Sh: gry-grn, blky, sft
 Tr. Clystn: wht, blky, vy sft
 990 - 1000 100% Sh: AA
 1000 - 10 10% Ss: wht, fg, sbrnd, sl cly fld, frm, poss sl por, N-S
 90% Sh: AA
 10 - 20 20% Ss: AA, w/sme lt grn, vfn-g, cly fld, sft
 70% Sh: gry, grn, rdsh brn, sme carb incl & stringers,
 sme sl slty, frm-sft
 10% Chert: wht, lt yel, cs-xln, ang-sbang, lse, hard

1020 - 30 30% Ss: wht, vfn-g, sbrnd, sl ark, sl cly fld, sme glauc,
 frm, poss sl por
 60% Sh: AA
 10% Clystn: wht, plty, vy sft
 Tr. Chert: red, cs-xln, sbrnd, lse, hrd
 30 - 40 20% Ss: AA, w/fg
 70% Sh: AA
 10% Chert: lt yel, cream, pnk, wht, cs-xln, ang-sbang,
 hrd, lse
 Tr. Gypsum: wht, transl,cs-xln, blk, hrd
 Tr. Pyrite: yel, metallic, hrd, drusy
 40 - 50 20% Ss: AA
 80% Sh: AA
 50 - 60 100% Sh: AA, w/incr. brn, sl slty
 Tr. Chert: wht, transp, ang, hrd, lse
 60 - 70 10% Ss: wht, lt gry, fg, sbrnd, sme glauc, sme amber
 vy sl cly fld, vy sft
 90% Sh: AA
 70 - 80 30% Ss: wht, vy lt grn, fg, sbrnd, mod-vy cly fld, sme
 glauc, sme frm, mst sft
 70% Sh: AA
 80 - 90 30% Ss: AA
 70% Sh: AA, w/mst brn-rdsh brn
 Tr. Coal: AA, w/o pyrite frac. fill
 Tr. Chert: wht, transp, cs-xln, ang, lse, hard
 1090 - 1100 100% Sh: lt gry, lt grn, blk, carb incl, mstly sl slt
 Tr. Coal: dk gry, blk, dull, shly, sft
 Tr. Chert: AA
 1100 - 10 30% Ss: wht, fg, sbrnd, carb incl, vy cly fld, sft, tite
 60% Sh: AA
 10% Chert: AA
 10 - 20 20% Ss: AA, w/grn, fg, frm-brittle
 80% Sh: AA
 Tr. Chert: AA, w/sme pk
 20 - 30 20% Ss: wht, lt gry, fg, sbrnd, carb incl, vy cly fld,
 frm-sft
 80% Sh: gry-grn, blk, numerous carb frags & stringers,
 sl slty, sft
 30 - 40 40% Ss: AA, w/sme vy calc
 60% Sh: AA
 Tr. Calcite: lt brn, cs-xln, hrd, ang, vy calc
 40 - 50 30% Ss: AA, w/sme vy calc
 70% Sh: AA
 50 - 60 50% Ss: wht, lt gry, fg, sbrnd, sl ark, sme carb incl,
 sl-vy cly fld, frm, vy calc, tite
 50% Sh: lt gry, brn, blk-plty, carb incl & larger frags
 w/sme stringers, sme sl slty, frm-sft
 Tr. Chert: AA
 60 - 70 30% Ss: AA
 60% Sh: AA
 10% Chert: wht, transp, cs-xln, ang, lse, hard
 70 - 80 60% Ss: AA, w/sme grn, fg, frm
 40% Sh: AA
 80 - 90 20% Ss: AA, w/grn, fg, frm
 80% Sh: AA, w/lesser amts of carb.
 1190 - 1200 20% Ss: AA
 70% Sh: gry, brn, blk, sme carb incl, sl ark, frm
 10% Coal: blk, vit, blk, w/pyrite fract. fill

1200 - 10	20% Ss: wht, lt brn, fg, sbrnd, carb incl, sl cly fld, sft, poss sl por
	70% Sh: AA
	10% Chert: AA
10 - 20	30% Ss: AA, w/sme glauc
	60% Sh: AA
	10% Chert: AA
	Tr. Pyrite: yel, metallic, hrd
20 - 30	40% Ss: AA, w/incr. carbon content
	60% Sh: AA, w/ " " "
	Tr. Chert: AA
30 - 40	30% Ss: AA
	70% Sh: AA, w/sme vy carb
	Tr. Chert: AA
40 - 50	40% Ss: wht, fg, sbrnd, sl ark, mod-vy cly fld, sft, mod-vy calc, N-S
	60% Sh: grn, gry, blk, sme sl slty, sme carb incl, frm-sf
50 - 60	10% Ss: AA, w/sme lt grn
	90% Sh: AA, w/sme vy slty
60 - 70	20% Ss: AA, w/sme carb incl, sme vy cly fld
	70% Sh: AA
	10% Coal: blk, dull, vy shly, sft
70 - 80	30% Ss: wht, fg, sbrnd, vy cly fld, sme glauc, vy sft, ca
	50% Sh: AA
	10% Coal: blk, vit-dull, sbang-blky, sft, sme sl shly
	10% Chert: pink, wht, cs-xln, ang, hrd, lse
80 - 90	30% Ss: AA, w/sme grn, fg, sbrnd, cly fld, frm, vy calc
	50% Sh: AA
	10% Coal: blk, vit, blk, frm
	10% Chert: AA
1290 - 1300	20% Ss: wht, vy lt grn, fg, sbrnd, sme glauc, vy calc, mo cly fld, sft, tite, N-S
	50% Sh: grn, brn, rdsh brn, blk, sme carb incl, sme sl-mod slty
	20% Coal: AA
	10% Chert: AA
1300 - 10	10% Ss: AA, w/sme gry
	70% Sh: AA
	10% Chert: AA
	10% Coal: AA
10 - 20	20% Ss: wht, f-mg, sbrnd, sme glauc, sl-mod cly fld, frm-sft
	60% Sh: AA
	10% Coal: AA, w/sme dissem. pyrite grns as fract. fill
	10% Chert: AA
20 - 30	20% Ss: AA, w/sme lt brn
	50% Sh: AA, w/sme plty
	20% Coal: AA
	10% Pyrite: yel, met, xls and nodules, hrd
	Tr. Chert: AA
30 - 40	10% Ss: AA, w/sme vfn-g
	80% Sh: AA
	10% Coal: AA
	Tr. Chert: AA
40 - 50	10% Ss: wht, fg, sbrnd, sme glauc, sme carb, vy cly fld, vy sft
	50% Sh: AA
	20% Coal: blk, vit, blk, frm
	20% Chert: org, red, wht, transp, cs-xln, hrd, lse

1350 - 60 20% Ss: wht, fg, sbrnd, sme glauc, mod cly fld, frm,
 mod calc, poss sl por.
 50% Sh: AA
 20% Coal: blk, vit, blk, frm
 10% Chert: wht, transp, cs-xln, lse, ang, hrd
 Tr. Calcite: wht, transl, sbrnd, lse, vy calc
 60 - 70 40% Ss: AA, w/lt brn, grn, fg, sbrnd
 30% Sh: gry, brn, grn, blk-plty, sme sl-mod slty,
 frm-sft
 20% Coal: AA
 10% Chert: AA
 70 - 80 30% Ss: AA
 40% Sh: AA
 20% Coal: AA, w/sme splintery
 10% Chert: AA
 1380 - 1400 30% Ss: wht, fg, sbrnd, sme carb, vy cly fld, mst calc,
 frm-sft, sme feldspar
 30% Sh: AA
 30% Coal: AA
 10% Chert: AA, w/sme lt org
 1400 - 10 20% Ss: wht, lt gry, fg, sbrnd, sme carb incl, fri, good
 por, N-S
 50% Sh: AA
 10% Coal: AA
 20% Chert: AA
 10 - 20 30% Ss: AA, w/sl ark, sme glauc, sft, poss sl por, N-S
 50% Sh: gry, grn, brn, blk, occ carb incl, sft
 20% Coal: blk, vit, blk
 Tr. Chert: AA
 20 - 30 60% Ss: AA, w/vy cly fld, vy sft, N-S
 20% Sh: AA
 10% Coal: AA
 10% Chert: wht, lt brn, cs-xln, lse, ang-sbrnd, hrd
 30 - 40 30% Ss: AA, N-S
 20% Sh: AA
 10% Coal: AA
 40% Chert: AA
 40 - 50 30% Ss: AA, N-S
 40% Sh: AA
 20% Coal: AA, w/sme dull, sl shly
 10% Chert: AA
 50 - 60 30% Ss: wht, fg, sbrnd, sme glauc, carb incl, vy cly
 fld, frm, vy calc
 50% Sh: gry, grn, dk brn, blk-plty, sme carb frags
 20% Chert: clr, cs-xln, ang, hrd, lse
 60 - 70 40% Ss: AA, w/lt brn, sl ark, vy calc
 20% Sh: AA, w/mstly lt grn, sme blk, vy carb
 30% Chert: clr, lt org, cs-xln, ang-sbrnd, lse, hard
 10% Coal: AA
 70 - 80 30% Ss: wht, fg, sbrnd, sme carb incl, mod cly fld, sft,
 vy calc, poss sl por
 50% Sh: AA
 20% Chert: AA
 80 - 90 40% Ss: AA
 60% Sh: AA
 1490 - 1500 40% Ss: AA, w/large carb frags and sme carb banding
 50% Sh: AA
 10% Chert: AA

1500 - 10 40% Ss: AA
30% Sh: lt gry, lt brn, blk, sl slty, sft
20% Coal: blk, vit, blk, frm
10% Chert: clr, wht, lt org, transp, transl, cs-xln,
ang-sbang, lse, hard

10 - 20 40% Ss: wht, fg, sbrnd, sme glauc, carb incl, vy cly
fld, vy sft-frm, sl-mod calc, tite
40% Sh: brn, blk, carb frags, vy sl slty, vy sft
20% Coal: AA
Tr. Chert: AA

20 - 30 30% Ss: AA, w/sme vfn-g
50% Sh: AA, w/sme vy carb
20% Chert: AA

30 - 40 50% Ss: AA
30% Sh: AA
10% Chert: AA
10% Coal: AA

40 - 50 20% Ss: AA
50% Sh: AA, w/incr. siltiness
10% Coal: AA
20% Chert: AA

50 - 60 20% Ss: wht, fg, sbrnd, glauc, sme carb incl, sl cly fld,
sl calc
50% Sh: brnsh gry, blk, sl-mod slty, carb incl, sl calc
20% Chert: AA
10% Coal: blk, vit, blk, frm-brittle
Tr. Pyrite: yel, met, nod, hrd

60 - 70 20% Ss: AA
50% Sh: AA, w/lt grn, fg, sft
20% Chert: AA
10% Coal: AA

70 - 80 10% Ss: AA
60% Sh: AA
10% Coal: AA
20% Chert: clr, lt org, cs-xln, sbang-sbrnd, lse, hrd

80 - 90 10% Ss: AA
70% Sh: AA, w/sme gry, slty, carb incl, vy sft
10% Coal: AA
10% Chert: AA

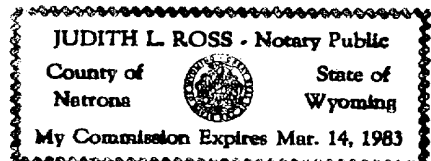
1590 - 1600 20% Ss: AA, w/lt brn, fg, carb incl, sbrnd, vy sl calc
60% Sh: AA, w/mstly brnsh gry, large carb frags & stringr
10% Coal: AA
10% Chert: AA, w/mstly clr, cs-xln

1600 - 05 30% Ss: AA
TD 40% Sh: AA
10% Chert: AA
20% Coal: AA

30 min. circ. spl.
20% Ss: wht, gry, vfn-fg, carb incl, sl cly fld, frm
60% Sh: AA
20% Chert: AA

ENERGY RESERVES GROUP, INC.

1,000'



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NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104 and C-110
Effective 1-1-65

I.

Operator ENERGY RESERVES GROUP, INC.	
Address P. O. Box 3280 Casper, Wy 82602	
Reason(s) for filing (Check proper box)	Other (Please explain)
New Well ☐	Change in Transporter of:
Recompletion ☐	Oil ☐ Dry Gas ☒
Change in Ownership ☐	Casinghead Gas ☐ Condensate ☐

If change of ownership give name
and address of previous owner _____

II. DESCRIPTION OF WELL AND LEASE

Lease Name Gallegos Canyon Unit	Well No. 313	Pool Name, Including Formation West Kutz, Picture Cliffs	Kind of Lease State, Federal or Fee Federal	Lease No. Ind-8475
Location Unit Letter <u>I</u> : <u>1850</u> Feet From The <u>South</u> Line and <u>1110</u> Feet From The <u>East</u> Line of Section <u>16</u> Township <u>28N</u> Range <u>12W</u> , NMPM, <u>San Juan</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)	
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 Co.	P. O. Box 1492 El Paso, Tx 79978	
If well produces oil or liquids, give location of tanks.	Unit	Sec. Twp. Rge.
		Is gas actually connected? When
		NO W.O. Pipeline

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.
		X						
Date Spudded 2-25-81	Date Compl. Ready to Prod. 5-11-81	Total Depth 1607'	P.B.T.D. 1572'					
Elevations (DF, RKB, RT, GR, etc.) GL 5537'; KB 5539'	Name of Producing Formation Pict. Cliffs	Top Oil/Gas Pay 1364'	Tubing Depth 1394'					
Perforations 1369' - 71'; 1375' - 78'(W) 1JSPF 1381' -84' (11 perfs)	TUBING, CASING, AND CEMENTING RECORD							
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT					
9-7/8"	7"	123'	65sx Class "C" w/2%					
			CACL ₂					
6-3/4"	4-1/2"	1605'	240sx 50-50 pozmix w/2%					
			Gel, 1/4# flocele/sx & 0.5% CFR-2					

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, etc.)
Length of Test	Tubing Pressure	Casing Pressure
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.

GAS WELL * Tested with orifice well tester thru test separator

Actual Prod. Test-MCF/D 106.5	Length of Test 12 hrs.	Bbls. Condensate/MMCF 0	Gravity of Condensate NA
Testing Method (pitos, back pr.) * see above note	Tubing Pressure () 125 psi	Casing Pressure (Shut-in) 225 psi	Choke Size 3/8"

VI. CERTIFICATE OF COMPLIANCE

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

Judith Ross
(Signature)
District Clerk
(Title)
5-28-81
(Date)

OIL CONSERVATION COMMISSION

APPROVED JUN 1 1981, 19
Original Signed by FRANK T. CHAVEZ
BY
TITLE SUPERVISOR DISTRICT # 4

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.