

FILE NOTATIONS

Entered in NID File

Entered On S R Sheet

Location Map Pinned

Card Indexed

I W R for State or Fee Land

Checked by Chief [Signature]

Copy NID to Field Office [Signature]

Approval Letter

Disapproval Letter

COMPLETION DATA:

Date Well Completed 11-16-65

OW _____ WW _____ TA _____

GW _____ OS _____ PA

Location Inspected _____

Bond released _____

State of Fee Land _____

LOGS FILED

Driller's Log 11-22-65

Electric Logs (No. 3)

E _____ I _____ E-I

Lat _____ Mi-L _____ Sonic _____

GR _____ GR-N _____ Micro minilog / Caliper

Others Cement Bond Log

LW
5-8

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

(Other instructions on reverse side)

Survey No. 41-28

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
Pacific Natural Gas Exploration Company

3. ADDRESS OF OPERATOR
P. O. Box 2436, Salt Lake City, Utah 84110

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface 660' FNL and 660' FEL of Sec 28, T 20S, R 7E
 At proposed prod. zone C 7E 7E ✓

5. LEASE DESIGNATION AND SERIAL NO.
Utah NF-4034

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Not Applicable

7. UNIT AGREEMENT NAME
Ferron

8. FARM OR LEASE NAME
State

9. WELL NO.
41-28

10. FIELD AND POOL, OR WILDCAT
Field

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
NE 1/4 NE 1/4 Sec 28, T 20S R 7E

12. COUNTY OR PARISH
Emery

13. STATE
Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
2-1/4 miles South of the town of Ferron, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
660'

16. NO. OF ACRES IN LEASE
70

17. NO. OF ACRES ASSIGNED TO THIS WELL
320

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
None

19. PROPOSED DEPTH
950'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5950' Ground

22. APPROX. DATE WORK WILL START*
10-15-65

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
9-7/8"	7-5/8"	26.40#	150'	65 Sacks
6-3/4"	4-1/2"	9.5#	950'	125 Sacks

(See attached drilling proposal)

See attached proposal # 31

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 E. E. Loman TITLE Drilling Superintendent DATE 9-10-65

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

DRILLING PROPOSAL
FOR
FERRON UNIT NO. 41-28
NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 28, T 20S, R 7E
Emery County, Utah
Development Well

1. Build road and location, move in, rig up and drill 165' of 9-7/8" hole with mud as a circulating medium.
2. Run 150' of 7-5/8", 26.40#/foot, J-55, S.T.& C. casing. Cement with sufficient quantity of cement with 2% CaCl₂ to circulate to surface.
3. W.O.C. 16 hours. After 8 hours, install casing head and B.O.P. Pressure test with 1,000# for 15 minutes.
4. After 16 hours, drill out with 6-3/4" bit using air as a circulating medium.
5. Expected formation tops are as follows:

Surface	Blue Gate Shale
Ferron	750'
Estimated T.D.	950'
6. Samples will be collected at 10-foot intervals from surface to T.D.
7. After total depth is reached, fill hole with mud and run I.E.S. and Micro Caliper log to T.D. Circulate all gas out of mud prior to running casing.
8. Run and cement (with 2% CaCl₂) approximately 950' of 4-1/2", O.D., 9.5#/foot, J-55, S.T.& C. casing. Cement should fill up approximately 300' above top of Ferron Sand.
9. Deviation surveys will be run at not more than 200-foot intervals. The deviation will be kept within one degree per 100' of hole drilled.
10. After 4-1/2" casing is run and cement hardened, intervals picked from the logs will be perforated. A sand-water, liquid CO₂ frac will be utilized after perforating.

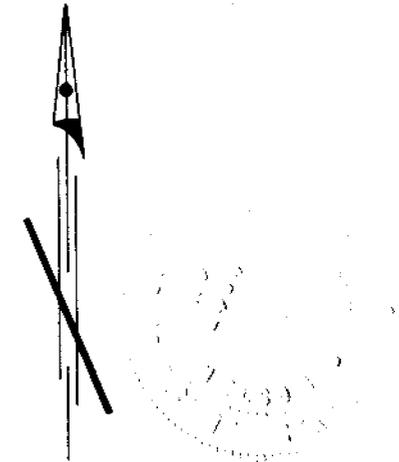
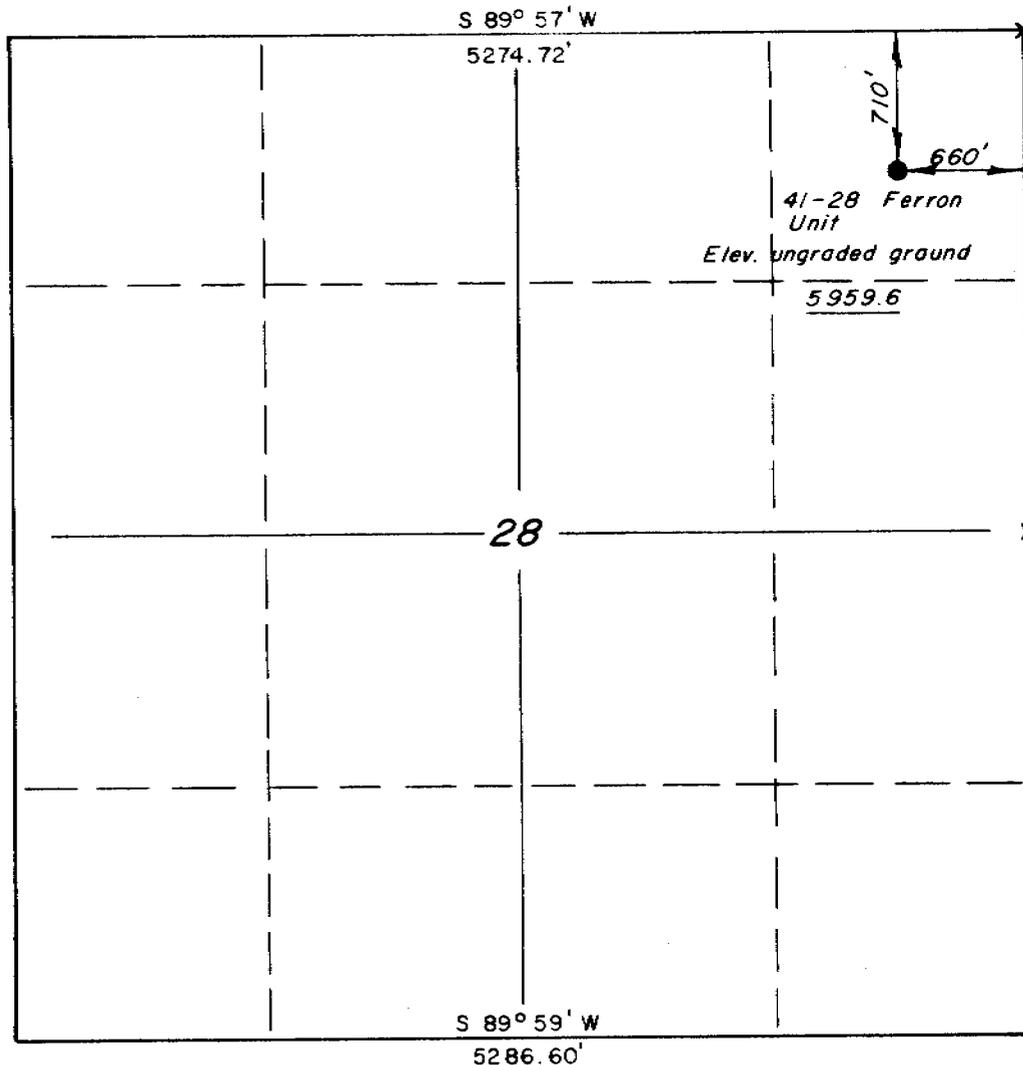
EEL/chd
9-14-65

T20S, R7E, SL B & M

PROJECT

PACIFIC NAT. GAS CO.

WELL LOCATION 41-28 FERRON UNIT LOCATED IN THE NE 1/4-NE 1/4, SEC. 28, T20S, R7E, SL B & M, EMERY COUNTY, UTAH.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Nelson J. Marshall

REGISTERED LAND SURVEYOR
REGISTRATION NO 2454 UTAH

X = CORNERS LOCATED (Brass Caps)

Uintah Engineering & Land Surveying BOX 330 VERNAL, UTAH	SCALE	DATE
	1" = 1000'	1 OCT., 1965
	PARTY	REFERENCES
GS-TW	GLO Township Plat	
WEATHER	FILE	
Windy-Cold	PACIFIC NAT. GAS CO.	

General Supply & Service Corporation

Industrial • construction • mining

(702) 482-3551

P.O. Box 2011 • Tonopah, Nevada 89049

Pacific Natural Gas Exploration
Depth LP

Well

Sec

Emerg

T. 205 R. 7E SEC. 27

X Thompson
Ralph-23-27
PJA

27

Cont. find

847-790^F (g)
951 summary
(39426-59510F)

217 maf

X Ferron 41-28

28

(5970KD)

PJA

Emerg

Cont. find

T. 205 R. 7E SEC. 28

842^F

Federal 23-28

28

6008.26

Federal 1-29

29

6121 DF

Ferron 41-33

33

6200 G

X Federal 1-34

34

(6216DF)

→ 1020 Box 1268

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION
348 EAST SOUTH TEMPLE
SUITE 301
SALT LAKE CITY, UTAH

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number: Ferron Unit No. 41-28
Operator Pacific Natural Gas Exploration Company P. O. Box 2436
Salt Lake City Address Phone 322-2583
Contractor Carmack Drilling Company Address 1129 Colorado Ave.
Grand Jct., Colo. Address Phone 243-3656
Location NE 1/4 NE 1/4 Sec. 28 T. 20^N R. 7 E Emery County, Utah.

Water Sands:

<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
From	To	Flow Rate or Head	Fresh or Salty
1.	<u>(See reverse side)</u>		
2.			
3.			
4.			
5.			

(Continued on reverse side if necessary)

Formation Tops: Mancos - Surface
Ferron Sand - 842'

Remarks:

- NOTE:
- (a) Upon diminishing supply of forms, please inform the Commission.
 - (b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure, (See back of form).
 - (c) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

Drillers Log: (Continued)

The hole was drilled with air from the shoe of the 7-5/8" surface casing at 212' to T.D., 991'. While drilling at 867', hole stopped dusting. Soap was injected at that depth, and the hole was mist drilled to T.D. No water was recovered at the surface. After running 4-1/2" casing to 991', perforating 847'-849' and 900'-902', and sand-water-CO₂ treating the perforations, 2-3/8" tubing was hung at 900'. The well, after cleaning up, produced a small quantity of flammable gas and approximately 1/2 barrel water (salt) per hour. Set a bridge plug at 874', ran 2-3/8" tubing to 870' and well continued to produced a small quantity of flammable gas and approximately 1/2 barrel per hour of salt water. Based upon the foregoing testing and the IES log, it would appear that the entire Ferron Sand contains salt (or brackish) water.

Rule C-20 REPORTING OF FRESH WATER SANDS

It shall be the duty of any person, operator or contractor drilling an oil or gas well or drilling a seismic, core or other exploratory hole to report to the Commission all fresh water sands encountered; such report shall be in writing and give the location of the well or hole, the depth at which the sands were encountered, and the thickness of such sands, and the rate of flow of water if known.

Bob Medder - Pacific Natural Gas & Expl. Co.

(41-28) - Ferron Unit

sec 28 T90S R 7E

$7\frac{1}{8}$ " c 212 } Circulates to surface

$4\frac{1}{2}$ " c 991 } Cement top @ 345 ft

Perf @ 847 - 849

900 - 902

& Cast iron body plug 874

① at 874 to above perfs @ 847-849
(squeeze a little in paper)

② few ss / marker

③ 25 ft in & 25 out if

any of $4\frac{1}{2}$ " paper in cut

Nov. 15, 1945 - PWB

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN THIS CATEGORY*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah ML-4654

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Not Applicable

7. UNIT AGREEMENT NAME

Ferron

8. FARM OR LEASE NAME

State

9. WELL NO.

41-28

10. FIELD AND POOL, OR WILDCAT

Ferron-Ferron

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec 28-20S-7E

12. COUNTY OR PARISH 13. STATE

Emery

Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Pacific Natural Gas Exploration Company

3. ADDRESS OF OPERATOR
P. O. Box 2436, Salt Lake City, Utah 84110

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface

710' FNL and 660' FEL of Sec 28-20S-7E, S.L.M.

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5970.6' K.B.

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF
FRACTURE TREAT
SHOOT OR ACIDIZE
REPAIR WELL
(Other)
PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING
(Other) History
REPAIRING WELL
ALTERING CASING
ABANDONMENT*

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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.)*

(See Attachment)

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

SIGNED R. D. Geddes

TITLE Division Manager

DATE 11-3-65

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____ DATE _____

*See Instructions on Reverse Side

XERO COPY

XERO COPY

XERO COPY

XERO COPY

OK

HISTORY

FERRON UNIT NO. 41-28

- 10-19-65 - Carmack Drilling Company moved in.
- 10-20-65 - Rigged up and spudded well at 9:00 P.M.
- 10-21-65 - Drilled 9-7/8" hole with mud to 218'. Ran 6 joints of 7-5/8", 26.40#, new J-55, 8 rd., ST&C casing (198.33' overall plus 1.25' for guide shoe) and cemented at 212.58' K.B. with 70 sax Class A cement plus 2% CaCl₂ (Colorado Cementers). Displaced with 11 barrels of water. Used Davis-Lynch guide shoe, centralizer at center of 1st joint and centralizer at top of 2nd joint. Used thread-lok on guide shoe and at top of 1st and 2nd joints. Used wooden top plug only. C.I.P. 12:00 Noon. Good circulation throughout, good cement returns at surface.
- 10-22-65 - W.O.C. 16 hours. Drilled out with air using 6-3/4" bit. Found top of cement at 196' K.B.
- 10-23-65 - Hole became wet at 867'. Injected detergent and water, and mist drilled from 867' to 991' T.D. No gas flow to surface at any time during drilling.

Surveys:	1/2° @ 92'	1° @ 710'
	1/2° @ 200'	2° @ 770'
	3/4° @ 270'	6° @ 830'-(Probable
	1/4° @ 350'	2° @ 860' Error)
	3/4° @ 510'	

Mudded up hole with 10.6# mud. Ran Lane Wells I.E.S. and Microlog.

- 10-24-65 - Ran 31 joints 4-1/2", 11.6#, used J-55, 8 rd, ST&C casing equipped with Davis-Lynch float shoe and 5 centralizers, one on 2nd joint and one on each joint thereafter. Total casing run 999.20' set at 991' K.B. Cemented with 94 sax Class A (Colorado Cementers). Displaced cement with fresh water. Plug down at 2:15 A.M.; at 6:00 P.M., ran McCullough Gamma Log, CBL and Collar Locator. Excellent cement bond from 968' to 486' (top of cement) at 327'. Perforated (McCullough) with two 1/2" 25 gram jets per foot from 847'-849' (4 holes) and 900'-902' (4 holes).
- 10-25-65 - Ran Baker Oil Tools, Inc. casing scraper on 2-3/8" tubing to top of float shoe. Pulled scraper and ran Baker Oil Tools, Inc. fullbore packer on 2-3/8" tubing to top of float shoe. Spotted 250 gallons of 15% MCA, pulled packer up to 875' and set packer at 875'. Broke down perforations (Dowell) from 900'-902' at 4000 psig and pumped away acid at 2 B.P.M. at 3000 psig. Pressured up annulus above packer and broke down

- 10-25-65 - perforations from 847'-849' with 2000 psig and pumped away acid at 9 B.P.M. at 2000 psig. Reacidized perforations (Con't) from 900'-902' with 250 gallons of 15% MCA. Broke down perforations with 2500 psig and pumped away acid at 7 B.P.M. at 3200 psig. Pulled tubing and packer.
- 10-26-65 - Fraced well (Dowell) down 4-1/2" casing treating perforations from 847'-849' and 900'-902'. Used 536 barrels of water, 94 barrels of liquid CO₂ and 30,550# of 10/20 sand. Water was treated with J-133 at the rate of 15#/1000 gallons. Maximum pressure 3200 psig, average pressure 1700 psig, ISIP 1000 psig, 5-minute SIP 900 psig. Maximum injection rate 21 B.P.M., average injection rate 16 B.P.M. Ran 888.82' of 2-3/8" tubing as follows:

50.87' 2-3/8", 4.7#, E.U.E. (top)
837.95' 2-3/8", 4.7#, J-55, Non-Upset (bottom)
888.82'

Ran tubing open ended. Hung at 900' K.B. Released rig at 4:00 P.M. Flowing well to cleanup. Flow testing details to follow.

RDG/11-3-65

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN THIS DATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

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 "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Pacific Natural Gas Exploration Company

3. ADDRESS OF OPERATOR
P. O. Box 2436, Salt Lake City, Utah 84110

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

710' FNL and 660' FEL Sec 28-T 20S-R 7E, S.L.M.

14. PERMIT NO. ---- 15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5970.6' K.B.

5. LEASE DESIGNATION AND SERIAL NO.
Utah ML-4654

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Not Applicable

7. UNIT AGREEMENT NAME
Ferron

8. FARM OR LEASE NAME
State

9. WELL NO.
41-28

10. FIELD AND POOL, OR WILDCAT
Ferron - Ferron

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 28-T 20S-R 7E

12. COUNTY OR PARISH 13. STATE
Emery Utah

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>History</u>	<input checked="" type="checkbox"/>
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

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.)*

Following the frac treatment of 10-26-65, the well was produced to cleanup. The frac fluids were recovered, and the well commenced making a small quantity of gas plus approximately 1/2 barrel per hour of salt water. In an attempt to eliminate the salt water which was thought to be being produced from the interval 900'-902', the following remedial work was performed:

11-5-65 Carmack Drilling Company moved in and rigged up. Pulled 2-3/8" tubing from 900' K.B. Ran Baker cast iron bridge plug on McCullough wire line and set at 874'. Reran 2-3/8" tubing to 870.72' (original K.B.):

50.87' 2-3/8", 4.7#, J-55, E.U.E. (top)
808.85' 2-3/8", 4.7#, J-55, Non-Upset (bottom)
859.72'

Bottom joint bullnosed and perforated with several torch cut holes.

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

SIGNED R. D. Geddes TITLE Division Manager DATE 11-8-65

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN THIS MANNER*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

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 "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Dry Hole		5. LEASE DESIGNATION AND SERIAL NO. Utah ML-4654																								
2. NAME OF OPERATOR Pacific Natural Gas Exploration Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Not Applicable																								
3. ADDRESS OF OPERATOR P. O. Box 2436, Salt Lake City, Utah 84110		7. UNIT AGREEMENT NAME Ferron																								
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 710' FNL & 660' FEL Sec 28-20S-7E, SLM		8. FARM OR LEASE NAME State																								
14. PERMIT NO. ----	15. ELEVATIONS (Show whether DF, RT, OR, etc.) 5970.6' K.B.	9. WELL NO. 41-28																								
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		10. FIELD AND POOL, OR WILDCAT Ferron - Ferron																								
<table border="0"> <tr> <th colspan="2">NOTICE OF INTENTION TO:</th> <th colspan="2">SUBSEQUENT REPORT OF:</th> </tr> <tr> <td>TEST WATER SHUT-OFF <input type="checkbox"/></td> <td>PULL OR ALTER CASING <input type="checkbox"/></td> <td>WATER SHUT-OFF <input type="checkbox"/></td> <td>REPAIRING WELL <input type="checkbox"/></td> </tr> <tr> <td>FRACTURE TREAT <input type="checkbox"/></td> <td>MULTIPLE COMPLETE <input type="checkbox"/></td> <td>FRACTURE TREATMENT <input type="checkbox"/></td> <td>ALTERING CASING <input type="checkbox"/></td> </tr> <tr> <td>SHOOT OR ACIDIZE <input type="checkbox"/></td> <td>ABANDON* <input type="checkbox"/></td> <td>SHOOTING OR ACIDIZING <input type="checkbox"/></td> <td>ABANDONMENT* <input checked="" type="checkbox"/></td> </tr> <tr> <td>REPAIR WELL <input type="checkbox"/></td> <td>CHANGE PLANS <input type="checkbox"/></td> <td>(Other) _____</td> <td>(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</td> </tr> <tr> <td>(Other) _____</td> <td></td> <td></td> <td></td> </tr> </table>		NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:		TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>	FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>	SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>	REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	(Other) _____				11. SEC., T., R., M., OR BLEK. AND SURVEY OR AREA Sec 28-20S-7E, SLM
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:																								
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>																							
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(Other) _____																										
		12. COUNTY OR PARISH Emery																								
		13. STATE Utah																								

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.)*

Due to a very low rate of gas production and excessive salt water production, the well was plugged and abandoned as follows:

1. Filled hole with heavy mud.
2. Plugged from 874'-503' with 25 sax Class A cement with 2% gel.
3. Pulled 4-1/2" casing from 120'.
4. Plugged from 120' to surface with 25 sax Class A cement with 2% gel.
5. Set dry hole marker.
6. Cleaned up location.

PLUGGED AND ABANDONED NOVEMBER 16, 1965

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

SIGNED R. D. Geddes

TITLE Division Manager

DATE 11-19-65

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

XERO COPY

XERO COPY

XERO COPY

XERO COPY

copy given to Harold

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions 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
Pacific Natural Gas Exploration Company

3. ADDRESS OF OPERATOR
P. O. Box 2436, Salt Lake City, Utah 84110

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 710' FNL & 660' FEL Sec 28-20S-7E, SLM
At top prod. interval reported below (as above)
At total depth (as above)

14. PERMIT NO. _____ DATE ISSUED _____

5. LEASE DESIGNATION AND SERIAL NO.
Utah ML-4654

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Not Applicable

7. UNIT AGREEMENT NAME
Ferron

8. FARM OR LEASE NAME
State

9. WELL NO.
41-28

10. FIELD AND POOL, OR WILDCAT
Ferron-Ferron

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec 28, T 20S, R 7E

12. COUNTY OR PARISH
Emery

13. STATE
Utah

15. DATE SPUDDED 10-20-65 16. DATE T.D. REACHED 10-23-65 17. DATE COMPL. (Ready to prod.) (Abandoned) 11-16-65 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 5970.6' K.B. 19. ELEV. CASINGHEAD 5959.6'

20. TOTAL DEPTH, MD & TVD 991' MD & TVD 21. PLUG, BACK T.D., MD & TVD B.P. 874' 22. IF MULTIPLE COMPL. HOW MANY* _____ 23. INTERVALS DRILLED BY _____ ROTARY TOOLS _____ CABLE TOOLS _____

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* (Abandoned) 25. WAS DIRECTIONAL SURVEY MADE
Drift Surveys Only

26. TYPE ELECTRIC AND OTHER LOGS RUN IES 991'-200', Minilog 991'-700', GR/CBL 991'-250' 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
7-5/8"	26.40#	212'	9-7/8"	70 Sax + 2% CaCl ₂	None
4-1/2"	11.60#	991'	6-3/4"	94 Sax	120'

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
None				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
None		

31. PERFORATION RECORD (Interval, size and number)

902'-900' four 1/2" jet holes
849'-847' four 1/2" jet holes
eight holes total

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
902'-847'	500 Gallons 15% MCA 536 Barrels of Water 94 Barrels CO ₂ 30,550# 10/20 Sand

33.* PRODUCTION

DATE FIRST PRODUCTION (Abandoned) PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) _____ WELL STATUS (Producing or shut-in) _____

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
See Reverse Side							

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) _____ TEST WITNESSED BY _____

35. LIST OF ATTACHMENTS
IES, Minilog & GR/CBL Already Submitted

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED R. D. Geddes TITLE Division Manager DATE 11-19-65

*(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.

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:

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

DESCRIPTION, CONTENTS, ETC.

GEOLOGIC MARKERS

NAME

MEAS. DEPTH

TOP

TRUE VERT. DEPTH

Ferron

842'

Not drilled through

Saltwater Sand

Ferron Sand

842'

842

After fracing, the well was produced from 10-26-65 to 11-5-65 and made only a very small quantity of gas and considerable salt water. Set a bridge plug at 874', so as to produce only from the interval 849'-847'. The well continued to produce as before and was abandoned 11-16-65 as non-commercial. The foregoing information is covered in detail in the Sundry Notices of 11-3-65, 11-8-65 and 11-18-65.

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY
 WELL COMPLETION OR RECOMPLETION REPORT