

FILE NOTATIONS:

Entered in NYD file ✓
 Entered On SR Sheet 7
 Location Map Used ✓
 Card Indexed ✓
 TWR for State of Fee Land _____

Checked by Chief PMB
 Copy NID to Field Office ✓
 Approval Letter ✓
 Disapproval Letter _____

COMPLETION DATA:

Date Well Completed 1-6-64
 OW _____ WW _____ TA _____
 GW _____ QS _____ PA X

Location Inspected _____
 Bond released _____
 State of Fee Land _____

LOGS FILED

Driller Log 2-21-64
 Electric Logs (No.) 8

E _____ L _____ EL _____ GR _____ GR-N ✓ Micro _____
 Lbt _____ Mi-L _____ Sonic GR Others Directional Log
Sonic Log Bond Log

Copy H. L. E.

Budget Bureau No. 49-2388-4
Form Approved.

Form G-221 a
(Feb. 1953)

Lead Office Durango
Lease No. SL 070042
Unit Wildcat

(SUBMIT IN TRIPPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

	(29)		
			X

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	X	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACCIDENT	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACCIDE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Lease # 10 - Bobash Area C-23 ✓

May 21, 1953

Well No. 2 is located 989 ft. from [S] line and 907 ft. from [E] line of sec. 29

NW SE SE Section 29 T 30 S R 25 E Salt Lake

Wildcat
(Well)

San Juan
(County or Subdivision)

Utah
(State or Territory)

The elevation of the ground above sea level is 6528 ft.

DETAILS OF WORK

(State nature of and expected depths to objective sands, clay plugs, weights, and lengths of proposed casings; indicate casing jobs, cementing jobs, and all other important proposed work)

(See attached drilling program) ✓

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Pacific Natural Gas Exploration Company

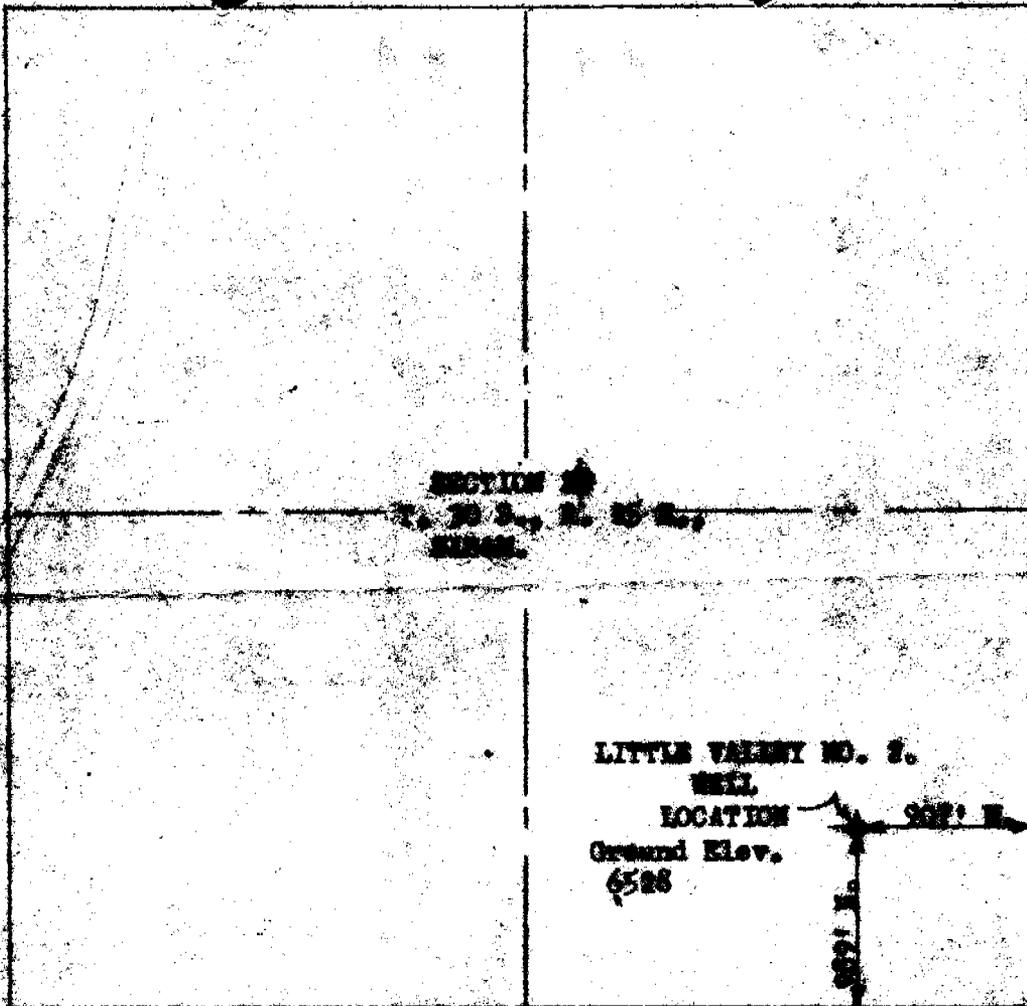
Address 366 South Fifth East

Salt Lake City, Utah

322-2503

By E. E. Loman

Title Drilling Supt.



SCALE: 1" = 1000'

LITTLE VALLEY NO. 2.
WELL
LOCATION
Ground Elev.
6528

SURVEYORS CERTIFICATE

I, GEORGE H. NEWELL DO HEREBY CERTIFY THAT I AM A REGISTERED LAND SURVEYOR AS PRESCRIBED BY THE LAWS OF THE STATE OF UTAH, AND THAT I HOLD UTAH CERTIFICATE NO. 1770 AND THAT THE LOCATION OF THE LITTLE VALLEY WELL NO. 2, AS SHOWN ON THIS PLAT WHICH WAS PREPARED BY ME, AND MORE SPECIFICALLY DESCRIBED AS FOLLOWS:

907 feet from the East line and 989 feet from the South line of Section 29, T. 30 S., R. 25 E., S100M., Ground elevation at location of 6528 ft. above sea level, according to U. S. C. & G. S. Datum.

IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DATE May 18, 1963

George H. Newell
George H. Newell



PROPOSED DRILLING PROGRAM
For
LITTLE VALLEY NO. 2 WELL

PMB

1. Build road and location, move in rig, and drill 265 feet of 17-1/2-inch hole. ✓
2. Run and cement, full length, 250 feet of 13-3/8-inch O.D., 48 pound per foot, H-40 casing. Cement with 230 sacks of regular cement with 4 percent calcium chloride. (20 percent excess and 20 feet left in 13-3/8-inch casing). ✓
3. After 12 hours release pressure and install well head and B.O.P. Test with 700 pounds for 15 minutes. After 24 hours drill out with 12-1/4-inch bit and air as a circulating media. ✓
4. Drill 12-1/4-inch hole to approximately 2,800 feet or into salt 100 feet.
5. Run logs as directed. ✓
6. Run and cement 2,800 feet of 9-5/8-inch O.D., 36 pound per foot, J-55 casing with 250 sacks of salt saturated cement with 2 percent calcium chloride. This will allow cement to flow up behind the 9-5/8-inch casing approximately 800 feet. The cement should be preceded with 10 barrels of gelled salt water. ✓
7. After cement has set 24 hours the pressure can be released and the 9-5/8-inch casing hung. Reinstall B.O.P. equipment and pressure test with 1,000 pounds for 15 minutes. After 36 hours drill out with 8-3/4-inch bit using air as a circulating media. ✓
8. Drill 8-3/4-inch hole 50 feet into the expected pay zone at approximately 7,525 feet. If water is encountered while drilling the 8-3/4-inch hole mud up immediately. ✓
9. Run logs to total depth as directed. ✓
10. Run 7-inch casing to total depth and cement with 830 sacks of salt saturated cement. If lost circulation is encountered while drilling the 8-3/4-inch hole, the cementing job on the 7-inch casing should be staged above the lost circulation zone. ✓ After 24 hours the slips for the 7-inch casing could be dropped down through the B.O.P. and the 7-inch casing hung. A string of 3-1/2-inch drill pipe could be picked up and stood in the derrick. After 72 hours a cement bonding log should be run to determine the results of the cement job. ✓ Reinstall B.O.P. equipment and test with 1,500 pounds for 15 minutes.
11. Drill out with a 6-inch bit and salt base mud with 10 percent oil and a very low water loss, 1 to 2 c.c.'s. Drill cement and shoe only. Run 5-1/2-inch magnet to clean up before coring. ✓
12. After drilling out the 7-inch casing, pick up full 6-inch diameter diamond core barrel and core ahead through the prospective Cane Creek pay section to approximately 7,675 feet for complete information as to the nature, saturation, and lithology of the reservoir. ✓

PROPOSED DRILLING PROGRAM For LITTLE VALLEY NO. 2 WELL (Continued)

13. If it appears practical after studying the cores to complete the well as an open-hole completion, then the total depth will be the base of the saturation.
14. If it is necessary to protect the pay section with a liner, then 50 to 100 feet of hole will be drilled below the saturation. ✓
15. If a liner is necessary, run 400 feet of 4-1/2-inch, heavy, flush joint casing and cement with the necessary volume of poslin salt saturated cement slurry to completely displace mud behind the liner. ✓
16. If a drill stem test is run in the production zone it should be cushioned with 2,500 feet of water and a 1/2-inch choke used. This should prevent the tool and perforations from plugging. ✓
17. Tops of expected formations are as follows:

Cutler	- Surface	Gothic	- 2,400'
Hermosa	- 500'	Salt	- 2,625'
Ismay	- 1,350'	<u>Cane Creek</u>	- 7,525'
Desert Creek	- 1,450'	Total Depth	- <u>7,750'</u>
Akah	- 1,800'		
18. A flare will be kept lighted at the end of the blooie line at all times during drilling operations using air. ✓
19. The rig will be equipped with a two-way radio telephone to facilitate the co-ordination of all operations. ✓
20. Blow-out equipment will include a hydraulically operated double gate at all times. ✓
21. Samples of formation cuttings should be collected at 10 foot intervals from the surface. ✓
22. Deviation surveys will be run at not more than 200 foot intervals. The deviation will be kept within 1 degree per 100 feet of hole with the total accumulative deviation not to exceed 1 degree per 1,000 feet of total hole drilled. ✓

EEL:des
4/17/63

May 23, 1963

Pacific Natural Gas Exploration Company
366 South Fifth East
Salt Lake City, Utah

Attention: Don Quigley, Geologist

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Little Valley #2, which is to be located 989 feet from the south line and 907 feet from the east line of Section 29, Township 30 South, Range 25 East, SLBM, San Juan County, Utah.

This well for Drilling Unit 19, is approved in accordance with the Order issued in Cause No. 70, dated May 11, 1962.

As soon as you have determined that it will be necessary to plug and abandon the above mentioned well, you are hereby requested to immediately notify the following:

PAUL W. BURCHELL, Chief Petroleum Engineer
Office: DA 8-5771 or DA 8-5772
Home: CR 7-2890
Salt Lake City, Utah

This approval terminates within 90 days if the above mentioned well has not been spudded in within said period.

Enclosed please find Form OGCC-8-X, which is to be completed if water sands (aquifers) are encountered while drilling, particularly assessable near surface water sands. Your cooperation with respect

May 23, 1963

to completing this form will be greatly appreciated.

Since this well is located in the Potash Area, we would like to draw your attention to Rule C-23, General Rules and Regulations and Rules of Practice and Procedure, Utah State Oil and Gas Conservation Commission, though it appears from your notice that you are aware of this fact.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT
EXECUTIVE DIRECTOR

CBF:cnp

cc: Jerry Long, Dist. Eng.,
U. S. Geological Survey
Durango, Colorado

H. L. Coonts, Pet. Eng.,
Oil & Gas Conservation Commission
Moab, Utah

210

Copy H. L. C.

Budget Bureau No. 42-R358.4
Form Approved.

Form 9-331a
(Feb. 1951)

	(20)	
		X

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Durango
Lease No. SL 070042
Unit Wildcat

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
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NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	X
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

July 1, 19 63

Little Valley
Well No. #2 is located 989 ft. from S line and 907 ft. from E line of sec. 29
SE SE Section 29 T 30 S R 25 E Salt Lake
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wildcat San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the ~~desire floor~~ ^{ground} above sea level is 6528 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

- Spudded June 12, 1963.
- June 12-13 Drd 17" surface hole to 290' and set 13 3/8, 48#/ft. H 40 Csg to 279' KB with 250 sacks regular cement plus 2% CaCl₂. Cement circulated.
- June 14-24 Drd 12 1/4" hole to 3219' with air. Surveys 3111 and 3210 indicated hole off more than 10 degrees.
- June 24 Ran Schlumberger Directional Survey and Gamma Ray Neutron Log.
- June 25-26 Plugged back from 3219 to 2608 with 375 sacks cement, with last 130 sacks containing 10% sand & 2% CaCl₂.

(continued on back of sheet)

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company PACIFIC NATURAL GAS EXPLORATION COMPANY
Address 366 South Fifth East
Salt Lake City, Utah
By M. D. Quigley
Title District Geologist

June 27-28

6. Drd to 2885', but could not get out of old hole.
7. June 29 Cemented back with 150 sacks cement with 15% sand and 3% CaCl_2 .
8. June 30-July 1 Set Eastman Whipstock at 2888' to straighten hole. Drd off of it at $11 \frac{1}{4}$ degrees N 54 E.
9. July 2 Set 2nd Eastman Whipstock at 2728'. Expect to drill off of it at 8 - 9 degrees, N 45 E.

JUL 3 1963

Copy H & E.

MB
7

	29		
			X

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Durango
SL 070042
Lease No. _____
Unit Wildcat

SUNDRY NOTICES AND REPORTS ON WELLS

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NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

August 7, 1963, 19

Little Valley
Well No. #2 is located 989 ft. from [S] line and 907 ft. from [E] line of sec. 29
SE SE Section 29 T 30 S R 25 E Salt Lake
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wildcat San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the ~~driller floor~~ ^{ground} above sea level is 6523 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudlogging jobs, cementing points, and all other important proposed work)

10. Drilling out cement.
11. July 6, 1963 - Drilled to 3503', anhydrite from 3219' to 3400'.
Base of Gothic Shale 3460'.
12. July 8, 1963 - Drilled to 3950'. Top of salt 3690'.
13. July 9, 1963 - Drilled to 4023', ran logs. Set 9 5/8" casing at 3940' with 350 sacks 50-50 pozmix with 2% CaCl₂, 2% gel, 1/2 lb Flow Seal per sack of mix, and 1 lb of walnut hulls per sack of mix.
14. Drilled 8 3/4" hole to 4620'.
15. D.S.T. No. 1 4450'-4620' - Initial Shut In 30 min., open 2 1/2 hrs. Final Shut In 2 3/4 hrs., recovered 950' of fluid which included 300' of high gravity light green oil and 650' of highly oil and gas cut mud.
(continued on back of sheet)

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company PACIFIC NATURAL GAS EXPLORATION COMPANY

Address 366 South Fifth East

Salt Lake City, Utah

By R. D. Geddes
R. D. Geddes
Title Petroleum Engineer

15. (cont.) Gas to surface in 15 min. and flowed at the estimated rate of 1000 MCF per day.

Top Pressure Bomb		Bottom Pressure Bomb
IHSP	2140#	2280#
ISIP	1715# & increasing	1770#
IFP	300#	430#
FFP	325#	430#
FSIP	2025# & increasing	2110#
FHSP	2200#	2280#

16. 7/14/63 to 7/25/63 Drilled ahead to 7495'. Ran logs.
7/25/63 to 7/27/63 Drilled ahead to 7961'.
Due to geologic conditions decided to plug back and re-drill.
Plugged from 7565' to 7165' with 150 sacks plus 15% sand, and 2% CaCl₂. Dressed off top of cement to 7250'.
Drilled ahead to 7383' and found that we are in the old hole.
Ran drag bit on bottom of turbo drill, and successfully sidetracked the old hole.
Drilled ahead to 7454', and dropped back into old hole.
17. 8/2/63 - Set whipstock at 7454' and drilled back into cement plug below whipstock.
Plugged with cement from 5312' to 5088'.
8/5/63 - re-drilling at 5162'.

1963 AUG 9

September 13, 1963

MEMO FOR FILING:

Re: Pacific Nat. Gas Explor. Co.
Little Valley #2
Sec. 29, T. 30 S. R. 25 E.,
San Juan County, Utah

On August 30, 1963, Mr. Quigley called and informed me that they had just completed setting their casing at 8390' on the top of the Kane Creek Marker. I advised Mr. Quigley to acquire a bond log because of its location in the Lisbon Valley Potash Withdrawal Area. On September 1, 1963, Mr. Harvey Coonts called from Moab and reported that the bond log indicated good bonding from 8300'-5466' and little or no bond from 5466'-4200' at the base of the intermediate string, which is at the top of the Paradox Salt Section. Several gas and oil shows were encountered and are probably therefore in communication behind the annulus. The pronounced oil and gas zones are as follows:

4530'-4580'
5030'-5090'
5200'-5270'
5500'-5550'

The top of the Kane Creek as previously noted is at 8300' and has not been drilled as of yet but will be tested in the near future. If commercial production is not encountered then the oil and gas shows as listed above will be perforated and topped.

Upon scrutinizing the logs ran through the Paradox Section no significant potash was encountered. Even though potash did exist, it would seem impractical for future mining due to the high concentration of oil and gas. Because of this situation and the fact that the oil and gas zones experienced considerable cavings-in, it was felt that this force would not request cementing the face of these zones prior to the future test. On September 2, 1963, it had been decided to perforate at 4280' and squeeze cement up the annulus between the two casing strings. On this same date perforations were made and 150 sacks of cement were squeezed in the annulus with a calculated fill up to 3680' with good mud returns at the surface.

PAUL W. BURCHELL
CHIEF PETROLEUM ENGINEER

PWB:kgw

cc: Harvey L. Coonts
Petroleum Engineer

EN^o

September 16, 1963

MEMO FOR FILING:

Re: Pacific Nat. Gas Explor. Co.
Little Valley #2
Sec. 29, T. 30 S. R. 25 E.,
San Juan County, Utah

On September 9, 1963, Mr. Darwin Quigley called for approval on tentative plans of plugging the above mentioned well in the following manner:

A base of 7" casing is at 8390' with the top of the Kane Creek Marker encountered at 8370'.

At present the well is being tested, cored and logged but commercial oil prospects appear negative.

50 sacks of cement will be placed from 8300'-8500'.

An additional plug will be set inside the 7" casing below 5600' with 35 sacks of cement.

The pay zone encountered above this depth will be perforated and tested. Total Depth is 8964'.

PAUL W. BURCHELL
CHIEF PETROLEUM ENGINEER

PWB:kgw

cc: Harvey L. Coonts
Petroleum Engineer
Oil & Gas Conservation Commission

Copy H. L. C.

29		

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Durango
Lease No. SL 070042
Unit Wildcat

SUNDRY NOTICES AND REPORTS ON WELLS

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NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	X
NOTICE OF INTENTION TO ABANDON WELL.....		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

September 27, 1963

Little Valley

Well No. 72 is located 989 ft. from N line and 907 ft. from E line of sec. 29
SE SE Sec. 29 T 30 S R 25 E Salt Lake
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wildcat San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6528 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

10. Drilling out cement.
11. July 6, 1963 - Drilled to 3503', anhydrite from 3219' to 3400'.
Base of Gothic Shale 3460'.
12. July 8, 1963 - Drilled to 3950'. Top of slate 3690'.
13. July 9, 1963 - Drilled to 4023', ran logs. Set 9 5/8" casing at 3940' with 350 sacks 50-50 permix with 2% CaCl₂, 2% gal, 1/4 lb Flow Seal per sack of mix, and 1 lb of walnut hulls per sack of mix.
14. Drilled 8 3/4" hole to 4620'.
15. D.S.T. No. 1 4450'-4620' - Initial Shut In 30 min., open 2 1/2 hrs. Final Shut In 2 3/4 hrs., recovered 950' of fluid which included 300' of high gravity light green oil and 650' of highly oil and gas cut mud.

(continued on back of sheet)

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company PACIFIC NATURAL GAS EXPLORATION COMPANY

Address 366 South Fifth East Street

Salt Lake City 2, Utah

By M. D. Quigley

Title District Geologist

15. (cont.) Gas to surface in 15 min. and flowed at the estimated rate of 1000 MCF per day.

Top Pressure Bomb		Bottom Pressure Bomb
IHSP	2140#	2280#
ISIP	1713# & increasing	1770#
IFP	300#	430#
FFP	325#	430#
FSIP	2025# & increasing	2110#
FHSP	2200#	2280#

16. 7-14-63 to 7-25-63 Drilled ahead to 7495'. Ran logs.
 7-25-63 to 7-27-63 Drilled ahead to 7961'.
 Due to geologic conditions decided to plug back and re-drill.
 Plugged from 7565' to 7165' with 150 sacks plus 15% sand, and 2% CaCl₂. Dressed off top of cement to 7250'.
 Drilled ahead to 7383' and found that we are in the old hole.
 Ran drag bit on bottom of turbo drill, and successfully sidetracked the old hole.
 Drilled ahead to 7454', and dropped back into old hole.
17. 8-2-63 - Set whipstock at 7454' and drilled back into cement plug below whipstock.
 Plugged with cement from 5312' to 5088'.
 8-5-63 - re-drilled at 5162'.
18. 8-5-63 - 8-12-63 - Drilled sidetracked hole 5162' to 6447'.
19. 8-12 & 8-13-63 - Ran D.S.T. # 2 & #2-A 6348 - 6447.
 ISI 30 min. Open 1 hour. FSI 30 min.
 Weak blow throughout test. Received 150' GCM and no oil.
- | | | | |
|------|------|------|------|
| IHSP | 3564 | FFP | 143 |
| ISIP | 301 | FSIP | 158 |
| IFP | 143 | FHSP | 3564 |
- BHT = 124°
20. 8-13-63 - 8-20-63 - Drilled from 6447' to 8410'.
 Sample top of Cane Creek - 8373'.
21. 8-20-63 - Ran Mechanical logs - Gamma-Neutron, Directional, & Sonic-Caliper.
 Top Cane Creek 8370'.
22. 8-21-63 - Ran D.S.T. #3 7510 - 7555.
 ISI 15 min. Open 75 min. FSI 30 min.
 Received 100' drlg mud.
- | | | | |
|------|------|------|-------|
| IHSP | 4355 | FFP | 45 |
| ISIP | 220 | FSIP | 65# |
| IFP | 65 | FHSP | 4355# |
23. 8-22-63 - Ran D. S.T. # 4 7065 - 7110'. Open 1 hour. Shut In 30 min.
 Weak blow throughout test. Received 15' drlg mud.
- | | | | |
|------|------|------|----|
| IHSP | 3993 | IFP | 64 |
| FFP | 59 | FSIP | 75 |
| FHSP | 3993 | | |
24. 8-23-63 - Ran D.S.T. #5 7900-8031
 Open 2 hours. Shut In 30 min. Good blow throughout test.
 Received 300' highly gas cut mud.
- | | | | |
|------|------|------|------|
| IHSP | 4656 | FCIP | 297 |
| IFP | 236 | FHSP | 4656 |
| FFP | 283 | | |
25. 8-24-63 - Ran D.S.T. #6 6115-6216.
 Open 1-1/2 hours, Shut In 1/2 hour. Strong blow throughout test.
 Received 275' drlg mud. No oil or gas.
- | | | | |
|------|------|------|------|
| IHSP | 3596 | FSIP | 262 |
| IFP | 168 | FHSP | 3596 |
| FFP | 205 | | |

26. 8-25-63 - Ran D.S.T. # 7. 5450-5551. Open 2 hours. Shut In 45 Min. Gas to surface in 15 min. Burned with 3' flare. Unable to get pkrs. loose after test. Found 4200' of fluid inside pipe. Pulled pipe into trying to loosen pkrs., and lost fluid.

IHSP	3190	FSIP	471
IFF	308	FHSP	3190
FFP	285		

27. 8-26-63 - 8-27-63 - Received D.S.T. tools, conditioned hole, and ran 7-inch casing.
 Ran 36 jts. 29#, N-80 Csg., 150 jts, 26#, J-55 csg., and 59 jts., 23#, J-55 csg.
 Ran csg. to 8390 and cemented in 2 stages.
 1st stage - 350 sacks 50-50 pos-mix with 2% gel and 14% salt.
 2nd stage - above D.V. collar at 5808'. 350 sacks 50-50 pos mix with 2% gel and 14% salt.

28. 8-28-63 - 8-31-63 - W.O.C. Ran Wellex Bond Log. Showed good cement bonding up to 5466'. No cement above 5466'.

29. 9-1-63 - 9-3-63. Perf. 4403-4404 with 25 ga. McCullough jts. Cemented with 150 sacks 50-50 pos-mix, 2% gel and 2% CaCl₂.

30. 9-4-63 - Tested gas flow between casings and had no gas. Found cement top at 4209. Drld out cement.

31. 9-5-63 - Cored 8412 - 8467. Received 55' of gray dense anhydrite with salt bed from 8439 to 8453 and from 8456 to 8467.

Ran D.S.T. #8 - 8385 - 8467. Strong blow initially dead in 45 min. Open 1 hour, Shut In 30 min. Received 100' of highly gas cut mud. Gas to surface in 45 min. TSTM.

IHSP	4642	FSIP	316
IFF	173	FHSP	4636
FFP	173		

32. 9-6-63 - Cores 8467 - 8527. Full Recovery - all salt.

33. 9-7-63 - 9-10-63. Drilled 8527 to T.D. 9000. Ran mechanical logs. Ran D.S.T. #9, 8815 to 9000'. Opened with weak blow, dead in 30 min. Received 260' of heavy black sulphurous liquid. FBIP 450# and building.

34. 9-11-63 - Perf. 8369-8370, 8373 - 8375, 8377-8383, and 8386 - 8390 with 27 35 ga. jets (2/ft)
 Ran D.S.T. # 10 8369 -8390. Open 1 hour, 45 min, Shut In 45 min. Med. blow decreasing to weak, dead in 1-1/2 hours. Received 800' of fluid (550' of highly gas cut mud and 250' of black non-sulphurous emulsions.)

IHSP	4425	FSIP	450
IFF	315	FHSP	4425
FFP	380		

35. 9-11-63 - Plugged back with 50 sacks 50-50 pos-mix, 2% gel & 3% CaCl₂ from 8550 to 8250. Plugged back with 35 sacks 50-50 pos-mix 2% gel and 3% CaCl₂ from 5900' to 5700'.

36. 9-12-63 - Tagged top of cement at 5733'. Ran McCullough Correlation log. Perfs as follows: (McCullough Measurements)

Zone I (4525-4575)	4526-29	6 shots
	4535-38	6 shots
Zone II (5030-5085)	5028-30	4 shots
	5034-36	4 shots
	5040-42	4 "
	5057-59	4 "
	5065-67	4 "
Zone III (5195-5285)	5226-6228	4 shots
	5234-5236	4 shots
Zone IV (5475-5530)	5486-88	4 shots

37. 9-13-63 - Ran 2 7/8" tubing with pkr. at 4179'. Perfs from 5100-5122.
 38. 9-14-63 - Swabbed well in. Flowed gas and distillate for 1 hour after 24 hours swabbing. Stuck swab and parted swab line.
 39. 9-15-63 - 9-18-63. Killed well with salt water. Fishing. Finally recovered swab, swab line tubing and pkr. from hole.
 40. 9-19-63. Reran tubing to 5150' and resumed swabbing,
 41. 9-20-63 - 9-22-63. Swabbing. Well has failed to respond after killing with salt water. Swab recovers only salt water with scum of oil - very little gas.
 42. 9-23-63. Started swabbing clean oil 8.1 bbls.
9-24-63. Swabbed 20 bbls. oil in 6 hours.
9-25-63. Swabbed 4.7 bbls. oil. Drlg mud and cement being recovered on swab runs.
9-26-63. Swabbed 11.5 bbls. of oil in 6 hours.
 43. Spotted 1000 gallons MCA (15%) acid. Allowed acid to soak and circulated past the perforations.
 44. 9-27-63. Flowed acid back and flowed 233 bbls. of oil in 12 hours.
-

January 2, 1964

Pacific Natural Gas Exploration Company
366 South 5th East
Salt Lake City, Utah

Re: Well No. Little Valley #2
Sec. 29, T. 30 S., R. 25 E.,
San Juan County, Utah

Gentlemen:

Our records indicate that you have not filed a Monthly Report of Operations for the months of October and November, 1963 for the subject well. Rule C-22(1), General Rules and Regulations and Rules of Practice and Procedure, Utah State Oil and Gas Conservation Commission requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. These reports may be filed on Form OGCC-1b (U. S. Geological Survey Form 9-331, "Sundry Notices and Reports on Wells"), or on Company Forms containing substantially the same information.

We are enclosing Form OGCC-1b for your convenience.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLARELLA H. PECK
RECORDS CLERK

cnp

Enclosure - Forms

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
366 South 5th East Street, Salt Lake City 2, Utah

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface **909' FEL & 907' FEL, Sec. 29 - T 30S - R 25E**

At top prod. interval reported below **(Dry Hole)**

At total depth **608.95' N & 216.69'E from shoe of surface casing.**

14. PERMIT NO. _____ DATE ISSUED _____
(Not Applicable)

5. LEASE DESIGNATION AND SERIAL NO. _____

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
(Not Applicable)

7. UNIT AGREEMENT NAME
(None)

8. FARM OR LEASE NAME
Little Valley

9. WELL NO. _____

10. FIELD AND POOL, OR WILDCAT
Almont

11. SEC. T. R., S., OR BLOCK AND SURVEY OR AREA
Sec. 29 - T 30S - R 25E

12. COUNTY OR PARISH
San Juan Utah

13. STATE
Utah

15. DATE SPUNDED **6-12-63** 16. DATE T.D. REACHED **9-10-63** 17. DATE COMPL. (Ready to prod) **(Dry Hole) 1-6-64** 18. ELEVATIONS (DF, REB, RT, GR, ETC.)* **6537' T.D.** 19. ELEV. CASINGHEAD **4424'**

20. TOTAL DEPTH, MD & TVD **608.95' MD, 5700' MD, 5435' TVD** 21. PLUG, BACK T.D., MD & TVD _____ 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)*
(Dry Hole) 25. WAS DIRECTIONAL SURVEY MADE
Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN
EN, SL/C, IR 27. WAS WELL CORRED
Yes

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	48	279'	17"	250 Sacs wet.	None
8 5/8"	36	3940'	12 1/4"	350 Sacs 50-50 Pre-mix	11.54'
7"	23, 26, 29	6390'	8 3/4"	350 Sacs 50-50 Pre-mix	2.24'
(See Attached History)					

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
None							

31. PERFORATION RECORD (Interval, size and number) 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
(See Attached History)	

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
(Dry Hole)							
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
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
History

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

SIGNED **H. D. Godes** TITLE **Petroleum Engineer** DATE **2-19-64**

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

**HISTORY
LITTLE VALLEY NO. 2**

ADDITIONAL CEMENTING RECORD

Perforated 7" casing with 4 holes from 4403'-4'. Spaced with 150 sacks of 50-50 Poz-Flt.

SIDE TRACKED WELL

Drilled to 3219'. Plugged back to 2600'. Redrilled to 2883'. Plugged back to 2660'. Redrilled and drilled to 7961'. Plugged to 2000'. Redrilled and drilled to 9000'.

FORMATION TOPS

Top of Anhydrite - 3219'
 Top of Gothic Shale - 3400'
 Base of Gothic Shale - 3460'
 Top of Salt - 3690'
 Top of Game Creek - 8370'

CORE DESCRIPTIONS

Cored 8412'-67'. Recovered 55% of dense gray anhydrite with salt beds from 8439'-53' and 8456'-67'.
 Cored 8467'-8527'. Recovered 60% of salt.

PERFORATIONS

4526'-29'		8369'-70'	
4535'-38'		8373'-75'	2 1/2" H.P.F.
5020'-30'		8377'-83'	
5034'-36'	2 1/2" H.P.F.	8386'-90'	
5040'-42'			
5057'-59'			
5065'-67'			
5226'-30'			
5234'-36'			
5266'-48'			

WELL TESTS

No. 1 4450'-4620'. Initial shut-in 30 minutes, open 2 1/2 hours. Final shut-in 2 3/4 hours, recovered 950' of fluid which included 300' of high gravity light green oil and 650' of highly oil and gas cut mud.

Top Pressure Bomb	Bottom Pressure Bomb
IHSP - 2140#	2280#
LSIP - 1715# & increasing	1770#
IVP - 900#	430#
IFP - 325#	430#
FSIP - 2025# & Increasing	2110#
FRSP - 2200#	2200#

No. 1 (con't) Gas to surface in 15 minutes and flowed at the estimated rate of 1000 MCF per day.

No. 2 6340'-6447'. IBI - 30 minutes. Open 1 hour. FSI - 30 minutes. Wash blow throughout test. Recovered 150' GCH and no oil.

IHSP - 3564 FFP - 143 MFT - 124'
ISIP - 201 FSIIP - 156
IFF - 143 FHSIP - 3564

No. 3 7510'-7555'. IBI - 15 minutes. Open - 75 minutes. FSI - 30 minutes. Recovered 100' drilling mud.

IHSP - 4355 FFP - 45
IHSP - 380 FSIIP - 434
IFF - 45 FHSIP - 4355

No. 4 7065'-7110'. Open 1 hour. Shut-in 30 minutes. Wash blow throughout test. Recovered 15' drilling mud.

IHSP - 3993 IFF - 64
FFP - 59' FSIIP - 75
FHSIP - 3993

No. 5 7700'-8091'. Open 2 hours. Shut-in 30 minutes. Good blow throughout test. Recovered 300' highly gas cut mud.

IHSP - 4656 FSIIP - 297
IFF - 384 FHSIP - 4656
FFP - 383

No. 6 6115'-6216'. Open 1 1/2 hours, shut-in 1/2 hour. Strong blow throughout test. Recovered 275' drilling mud. No oil or gas.

IHSP - 3596 FSIIP - 262
IFF - 148 FHSIP - 3596
FFP - 205

No. 7 5450'-5551'. Open 2 hours. Shut-in 45 minutes. Gas to surface in 15 minutes. Armed with 3' flare. Unable to get pipe loose after test. Found 1200' of fluid inside pipe. Packed pipe into trying to loosen pipe, and lost fluid.

IHSP - 3190 FSIIP - 471
IFF - 902 FHSIP - 3190
FFP - 289

No. 8 8305'-8467'. Strong blow that was initially dead in 45 minutes. Open 1 hour, shut-in 30 minutes. Recovered 100' of highly gas cut mud. Gas to surface in 45 minutes. TORN.

IHSP - 4642 FSIIP - 316
IFF - 173 FHSIP - 4636
FFP - 173

No. 9 8015'-9000'. Opened with wash blow, dead in 30 minutes. Recovered 200' of heavy black sulphurous liquid. FSIIP 450' and building.

No. 10 8369'-8390'. Open 1 hour, 15 minutes. Shut-in 45 minutes. Medium blow decreasing to weak, dead in 1 1/2 hours. Recovered 800' of fluid (350' of highly gas cut mud and 450' of black non-sulphurous emulsion.)

INSP - 4425 PSIP - 150
IPP - 315 PESP - 4425
FPF - 360

ADDITIONAL TREATING & TESTING NEEDED

After testing the interval 8369'-90', the well was plugged to 5733', and perforated from 4526'-5188' in intervals. This interval was washed with 1600 gallons of 15 per cent HCl and then later flooded with 20, 800 gallons of oil, 140 barrels of liquid O₂, and 1500 pounds of 20-40 mesh. 1500 pounds of Adonite were blended with the oil. Only a small amount of oil was recovered after each of these treating operations.

PLUGGING LOGS (CHECK)

- 8350'-8360'
- 5900'-5733'
- 5320'-5430'
- 5070'-5170'
- 5134'-4970'
- 4570'-4470'
- 2875'-2875'
- 120'-220'

Surface plug with dry hole marker.

FEB 21 1964

February 21, 1964

Pacific Natural Gas Exploration Company
366 South 5th East
Salt Lake City, Utah

Attention: Mr. R. D. Gaddas, Petroleum Engineer

Re: Well No. Little Valley #2
Sec. 29, T. 30 S. R. 25 E.,
San Juan County, Utah

Gentlemen:

We are in receipt of your well log for the above named well. However, upon checking this information, we notice that the date this well was plugged and abandoned was omitted and you did not report the water sands encountered while drilling. Please complete the enclosed Form OGCC-8-X, and return to this office as soon as possible.

We would also like a copy of the Directional Survey you made on this well.

Thank you for your cooperation with respect to these requests.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLARELLA H. PECK
RECORDS CLERK

CHP:kgw

Enclosure - Forms

6103

PACIFIC NATURAL GAS EXPLORATION COMPANY

07/10

366 SOUTH FIFTH EAST STREET

SALT LAKE CITY, UTAH 84102

February 25, 1964

X

State of Utah
Oil and Gas Conservation Commission
310 Newhouse Building
10 Exchange Place
Salt Lake City, Utah 84111

Re: Well No. Little Valley No. 2
Sec. 29, T. 30S., R. 25E.
San Juan County, Utah

Gentlemen:

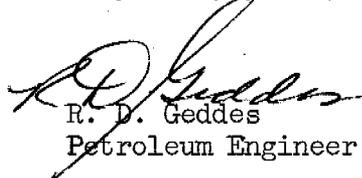
The following is in response to your letter of February 21, 1964, regarding the captioned well.

The well was plugged and abandoned on January 6, 1964.

We are forwarding your Forms OGCC-8-X to W. Don Quigley, who supervised the drilling of the well, for his preparation.

Upon examination of the directional survey prior to their distribution, several errors in computation were noted. We returned the subject survey to Schlumberger for correction and will send you a copy upon our receipt of the corrected copies.

Very truly yours,


R. D. Geddes
Petroleum Engineer

RDG/chd

cc: W. Don Quigley

U.

W. DON QUIGLEY

CONSULTING GEOLOGIST
PETROLEUM - MINING WORK

323 NEWHOUSE BLDG. - SALT LAKE CITY, UTAH 84111

August 6, 1964

State of Utah
Oil and Gas Conservation Commission
Suite 301
348 East South Temple
Salt Lake City, Utah

Re: Well No. Little Valley No. 2
Sec. 29, T. 30 S., R. 25 E.
San Juan County, Utah

Dear Sirs:

Enclosed herewith are the forms regarding water zones in the Little Valley No. 2 well. Please excuse the delay in forwarding these forms.

Sincerely,

W. Don Quigley
W. Don Quigley

WDQ:wa
CC: Pacific Natural Gas