Scout Report sent out ☑

Noted in the NID File ☑

Location map pinned ☑

Approval or Disapproval Letter ☑

Date Completed, P. & A. or operations suspended ———

Pin changed on location map ☐

Affidavit and Record of A & P ☐

Water Shut-Off Test ☐

Gas-Oil Ratio Test ☐

Well Log Filed ☐

Subsequent Report of Abandonment

REWORK

FILE NOTATIONS

Entered in N I D File ____ Checked by Chief ✓

Entered On S R Sheet ____ Copy N I D to Field Office ____

Location Map Pinned ✓ Approval Letter ____

Card Indexed ____ Disapproval Letter ____

I W R for State or Fee Land ____

COMPLETION DATA:

Date Well Completed 12-12-64 Location Inspected ____

OW ____ WW ____ TA ____ Bond released ____

SI GW ✓ OS ____ PA ✓ State of Fee Land ____

LOGS FILED

Driller's Log 2-23-65

Electric Logs (No.) ____

E ____ I ____ E-I ____ GR ____ GR-N ____ Micro ____

Lat ____ Mi-L ____ Sonic ____ Others ____

Shell Co

FILE NOTATIONS

Entered in N I D File ✓

Entered On S R Sheet ✓

Location Map Pinned ✓

Card Indexed ✓

I W R for State or Fee Land ____

COMPLETION DATA:

Date Well Completed 3-22-60

OW ____ WW ____ TA ____

GW ____ OS ____ PA X

Checked by Chief ✓

Copy N I D to Field Office ✓

Approval Letter ✓

Disapproval Letter ____

Location Inspected ____

Bond released ____

State of Fee Land ____

D

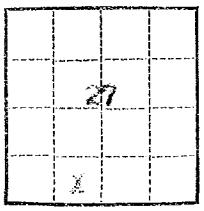
El 10-26-59 LOGS FILED

E 2 I 4

Lat ____ Mi-L ____ E-I 2 GR ____ GR-N 2 Micro

PW

Form 9-331a
(Feb. 1951)



(SUBMIT IN TRIPLICATE)

Budget Bureau No. 42-R358.4.
Approval expires 12-31-60.

Land Office Salt Lake City

Lease No. U-0283

Unit North Springs

ission UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 ACIDIZING	
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 ACIDIZE		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)

December 11, 19 57

North Springs Unit
Well No. 1 is located 660 ft. from {N/S} line and 1980 ft. from {E/W} line of sec. 27

SW 27 (¼ Sec. and Sec. No.) | 15S (Twp.) | 9E (Range) | SLBM (Meridian)

Wildcat (Field) | Carbon (County or Subdivision) | Utah (State or Territory)

The elevation ~~of the derrick floor above sea level~~ is 6100 ft. (approx. ground)

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)

Proposed Work:

1. Drill 12-1/4" hole to 1000'±. Find suitable shell body for casing setting point.
2. Open 12-1/4" hole to 17-1/2".
3. Run and cement 13-3/8" casing at 1000'± with 800 sacks treated cement.
4. Drill 9" hole to 12,000'±.
5. Provide for 200' of coring for detailed stratigraphic studies.
6. Run logs as needed.
7. Provide for 5 formation tests.
8. Provide for 30 sidewall samples.
9. If commercial production is obtained a subsequent report will follow.

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

Company Shell Oil Company

Address 101 South Behrend

Farmington, New Mexico

By W. A. Shepard
W. A. Shepard

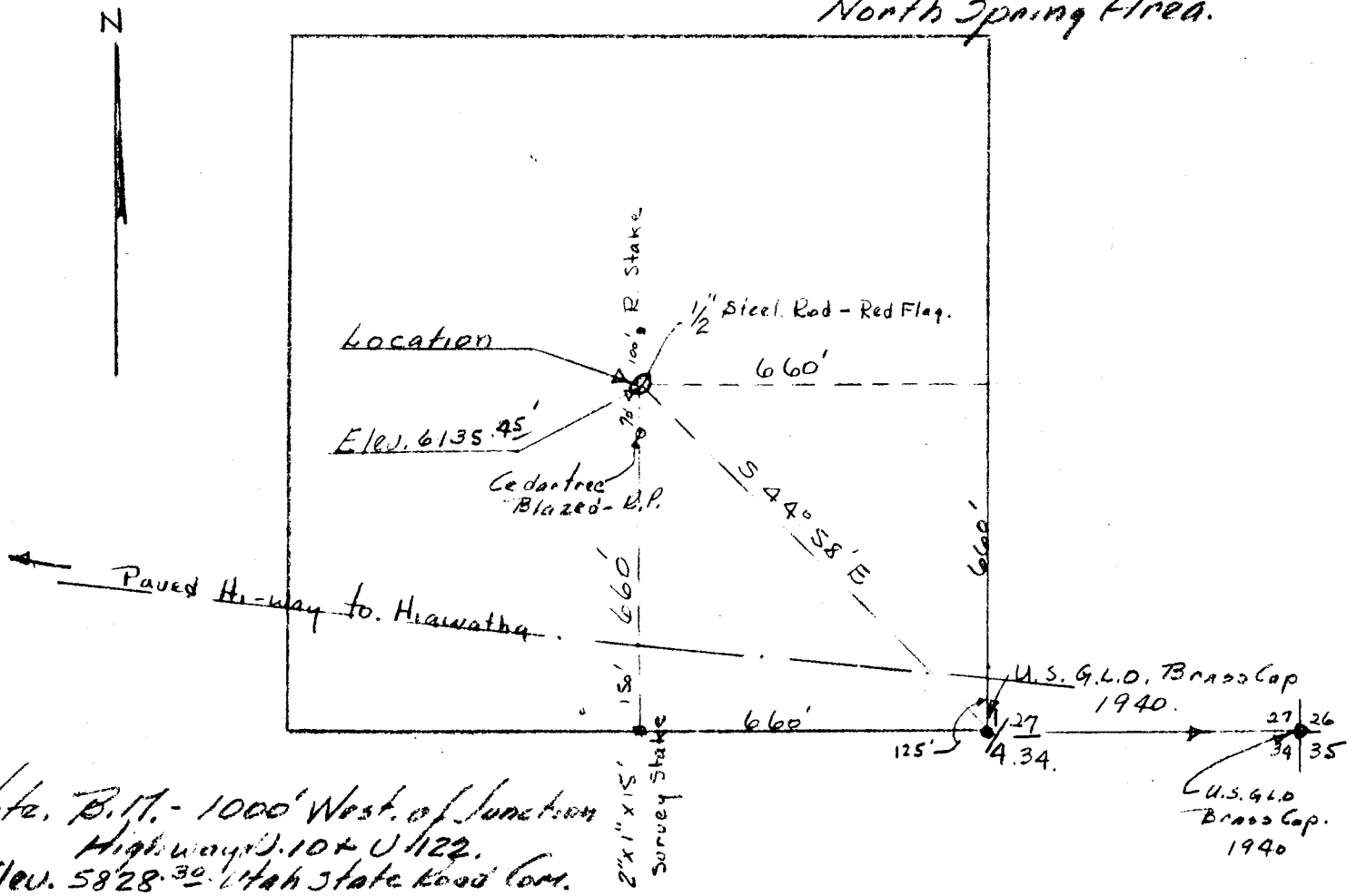
Title Exploitation Engineer

U. S. GOVERNMENT PRINTING OFFICE 16—8437-6

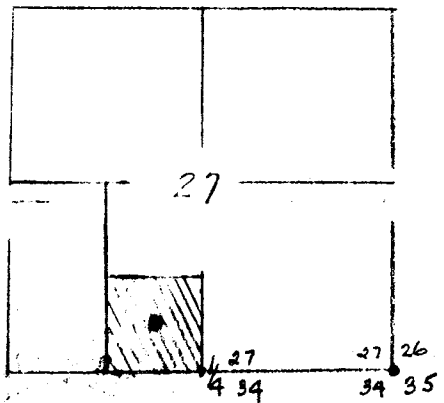
Reference Points: 2"x1"x15" Survey Stake Set. 100' North from Location. Cedar tree Blazed 70' South of Location. Stake Set with Mound of Stone - 660 ft. West of 1/4. Cor on Section Line.

Section 27, T15S, R9E. S.L.M.

North Spring Area.



Note. B.M. - 1000' West of Junction Highway U.10 & U.122.
Elev. 5828.30 - Utah State Road Com.



This is to certify that the above plat was prepared from field notes of natural survey made by me & the same is a true & correct to the best of my knowledge & belief.

John Bene

John Bene, Civil Engineer
& Land Surveyor, #1050

NORTH SPRINGS-1

SHELL OIL COMPANY
Well location: SE¼SW¼, Sec. 27, T. 15 S., R. 9 E., SLM.
Carbon County, Utah

Dec. 6, 1957 Scale 1" = 330'

Drawn by: JOHN BENE
Utah License #1050
Price, Utah

220-734

December 19, 1957

Shell Oil Company
101 South Behrend
Farmington, New Mexico

Attention: B. W. Shepard, Exploitation Engineer

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. North Springs Unit 1, which is to be located 660 feet from the south line and 1980 feet from the west line of Section 27, Township 15 South, Range 9 East, SLBM, Carbon County, Utah.

Please be advised that insofar as this office is concerned, approval to drill said well is hereby granted.

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

Yours very truly,

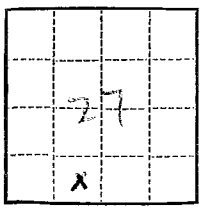
OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT
SECRETARY

CBF:en

cc: Don Russell
USGS, Federal Bldg.
Salt Lake City, Utah

Form 9-331a
(Feb. 1951)



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R358.4.
Approval expires 12-31-60.

Land Office Salt Lake City, Utah
Lease No. SL 065853
Unit North Springs

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	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
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)

January 24, 1958

North Springs Unit
Well No. 1 is located 660 ft. from {N/S} line and 1980 ft. from {E/W} line of sec. 27

SW 27 (¼ Sec. and Sec. No.) | 15S (Twp.) | 9E (Range) | SLBM (Meridian)

Wildcat (Field) | Carbon (County or Subdivision) | Utah (State or Territory)

The elevation of the Kelly Bushing above sea level is 6143.5 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 1-20-58)

1-29,30-58 Ran and cemented 13-3/8" 48 lb., H-40 casing with 865 sacks treated cement. Good returns. Flanged up and waited on cement. tested BOP and casing with 700 PSI 15 min, ok.

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

Company Shell Oil Company

Address 101 S. Behrend

Farmington, New Mexico

By

Title B.W. Shepard Exploitation Engineer

GPO 9 18 507

Budget Bureau No. 42-R356.5.
Approval expires 12-31-60.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER SL 065853
UNIT North Springs

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Carbon *Field* North Springs Unit

The following is a correct report of operations and production (including drilling and producing wells) for the month of February, 19 58,

Agent's address 101 South Behrend Avenue
Farmin ton, New Mexico
Phone DA 5-7595

Company Shell Oil Company
Signed Original signed by B. W. SHEPARD
Agent's title Exploitation Engineer

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
27 SE SW	15S	9E	1	-	-	-	-	-	-	Drilling at 5300' as of 2-28-58

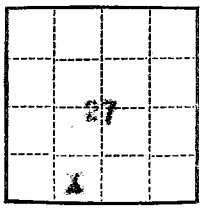
NOTE.—There were - runs or sales of oil; - M cu. ft. of gas sold; - runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

16—25766-8 U. S. GOVERNMENT PRINTING OFFICE

Form 9-331a
(Feb. 1951)



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R358.4.
Approval expires 12-31-60.

Land Office Salt Lake City, Utah
Lease No. SL 065853
Unit North Springs

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)

April 16, 1958

North Springs Unit
Well No. #1 is located 660 ft. from {N/S} line and 1980 ft. from {E/W} line of sec. 27

SW 27 (¼ Sec. and Sec. No.) | 15S (Twp.) | 9E (Range) | SLBM (Meridian)

Wildcat (Field) | Carbon (County or Subdivision) | Utah (State or Territory)

The elevation of the ~~derrick floor~~ Kelly Bushing above sea level is 6143.5 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)

DST #1 8814-9000'. No water cushion, tool open 1 hr. Faint blow throughout test. Recovered 115' mud, ISIP 1355, IFP 60, FFP 110, FSIP 1610, HP 4427 psi.

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

Company Shell Oil Company

Address 101 S. Behrend

Farmington, New Mexico

Original signed by
R. S. MacALISTER, JR.

By _____
for B. H. Shumard
Title Exploitation Engineer

GPO 9 18 507

Budget Bureau No. 42-R356.5.
Approval expires 12-31-60.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER SL 065853
UNIT North Springs

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Carbon *Field* North Springs Unit

The following is a correct report of operations and production (including drilling and producing wells) for the month of April, *19* 58,

Agent's address 101 South Behrend Avenue *Company* Shell Oil Company
Farmington, New Mexico *Signed* Original signed by E. W. SHEPARD
Phone DA 5-7595 *Agent's title* Exploitation Engineer

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
27 SE SW	15S	9E	1	-	-	-	-	-	-	Drilling at 9747' as of 4-30-58

NOTE.—There were ____ runs or sales of oil; ____ M cu. ft. of gas sold; ____ runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

16—25766-8 U. S. GOVERNMENT PRINTING OFFICE

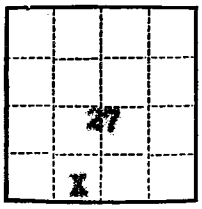
Form 9-331a
(Feb. 1951)

Budget Bureau No. 42-R358.4.
Approval expires 12-31-60.

Land Office Salt Lake City, Utah

Lease No. SL 065653

Unit North Springs



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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)

May 27, 1958

North Springs Unit
Well No. # 1 is located 660 ft. from {N/S} line and 1980 ft. from {E/W} line of sec. 27

SW 27 (¼ Sec. and Sec. No.) | 15S (Twp.) | 9E (Range) | SLBM (Meridian)

Wildcat (Field) | Carbon (County or Subdivision) | Utah (State or Territory)

The elevation of the ~~derrick floor~~ Kelly Bushing above sea level is 6143.5 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)

DST #2 10,589-10,730. 2000' water cushion.
Initial shut in ½ hour. Open 2½ hrs. Final shut in 2 hrs.
ISIP 5815, IFP 1225, FFP 670, FSIP 5635, HP 5970.
Water cushion to surface in 29 minutes.

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

Company Shell Oil Company

Address 101 0 South Behrend

Farmington, New Mexico

Original signed by
H. S. Mac Allister, Jr.
By H. S. Mac Allister, Jr.
Title Division Exploitation Engineer

GPO 9 18 507

Budget Bureau No. 42-R356.5.
Approval expires 12-31-60.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER SL 065853
UNIT North Springs

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Carbon *Field* North Springs Unit

The following is a correct report of operations and production (including drilling and producing wells) for the month of May, 1958,

Agent's address 101 South Behrend Avenue
Farmington, New Mexico
Phone DAvis 5-7595

Company Shell Oil Company
Signed Original signed by
B. W. SHEPARD
Agent's title Exploitation Engineer

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
27 SE SW	15S	9E	1	-	-	-	-	-	-	Drilling at 10737 as of 5-31-58

NOTE.—There were - runs or sales of oil; - M cu. ft. of gas sold; - runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

16—25766-8 U. S. GOVERNMENT PRINTING OFFICE

Budget Bureau No. 42-R356.5.
Approval expires 12-31-60.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER SL 065853
UNIT North Springs

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Carbon *Field* North Springs Unit

The following is a correct report of operations and production (including drilling and producing wells) for the month of June, 1958,

Agent's address 101 South Behrend Avenue *Company* Shell Oil Company

Farmington, New Mexico *Signed* Original signed by N. W. SHEPARD

Phone Davis 5-7595 *Agent's title* Exploitation Engineer

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
27 SE SW	15S	9E	1	-	-	-	-	-	-	Drilling at 11,804 as of 6-30-58

NOTE.—There were ---- runs or sales of oil; ---- M cu. ft. of gas sold; ---- runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

16—25766-8 U. S. GOVERNMENT PRINTING OFFICE

Budget Bureau No. 42-R356.5.
Approval expires 12-31-60.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER SL 065853
UNIT North Springs

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Carbon Field North Springs Unit

The following is a correct report of operations and production (including drilling and producing wells) for the month of July, 19 58,

Agent's address 705 Municipal Dr. *Company* Shell Oil Company

Farmington, New Mexico *Signed* Original signed by B. W. SHEPARD

Phone Davis 5-8811 *Agent's title* Exploitation Engineer

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
27 SE SW	15S	9E	1	-	-	-	-	-	-	Suspended 7-27-58

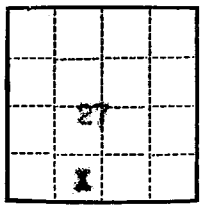
NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

16—25766-8 U. S. GOVERNMENT PRINTING OFFICE

Form 9-331a
(Feb. 1951)



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R358.4.
Approval expires 12-31-60.

Land Office SLC, Utah
Lease No. SL 065053
Unit North Springs

71. H
8-19

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	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			
Notice of Intention to Suspend Operations	X		

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

July 28, 1958

North Springs Unit
Well No. #1 is located 660 ft. from {N/S} line and 1980 ft. from {E/W} line of sec. 27

SW 27 (¼ Sec. and Sec. No.) | 15S (Twp.) | 9E (Range) | SLBM (Meridian)

Wildcat (Field) | Carbon (County or Subdivision) | Utah (State or Territory)

The elevation of the ~~derrick floor~~ Kelly Bushing above sea level is 6143.5 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)

Status: TD 12,737'
13 3/8" casing @ 910', 7" casing @ 10,737'

Proposed Work:

1. Place plugs as follows: 40 sacks cement @ 11,000'
   70 sacks cement @ 10,900'
2. Install 5000# test surface flange & gate.
3. Find top of cement, release rig and suspend operations until futher notice.

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

Company Shell Oil Company

Address 101 South Behrend

Farmington, New Mexico

Original signed by
By B. W. SHEPARD

B. W. Shepard
Title Exploitation Engineer

GPO 9 18 507

Budget Bureau No. 42-R356.5.
Approval expires 12-31-60.

Salt Lake City, Utah

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER U 065853
LEASE North Springs
UNIT

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Carbon Field North Springs Unit

The following is a correct report of operations and production (including drilling and producing wells) for the month of August, 19 58,

Agent's address 705 Municipal Dr. *Company* Shell Oil Company

Farmington, New Mexico *Signed* Original signed by B. W. SHEPARD

Phone Davis 5-8811 *Agent's title* Exploitation Engineer

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
27 SE SW	15S	9E	1	-	-	-	-	-	-	Suspended

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

16—25766-8 U. S. GOVERNMENT PRINTING OFFICE

Budget Bureau No. 42-R356.4.
Approval expires 12-31-55.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER SL 065853
UNIT North Springs

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Carbon Field North Springs Unit

The following is a correct report of operations and production (including drilling and producing wells) for the month of September 19 58,

Agent's address 705 West Municipal Drive
Farmington, New Mexico
Davis 5-8811

Company Shell Oil Company

Signed Original signed by B. W. SHEPARD

Agent's title Exploitation Engineer

Phone

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
27 SE SW	15S	9E	1	-	-	-	-	-	-	Suspended

NOTE.—No were No runs or sales of oil; M cu. ft. of gas sold; runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

16—25766-7 U. S. GOVERNMENT PRINTING OFFICE

Budget Bureau No. 42-R356.5.
Approval expires 12-31-60.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER SL 065853
UNIT North Springs

LESSEE'S MONTHLY REPORT OF OPERATIONS

M-H
12-1-58

State Utah County Carbon Field North Springs Unit

The following is a correct report of operations and production (including drilling and producing wells) for the month of October, 19 58,

Agent's address 705 West Municipal Drive Company Shell Oil Company
Farmington, New Mexico Signed Original signed by B. W. SHEPARD
Phone DAvis 5-8811 Agent's title Exploitation Engineer

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
27 SE SW	15S	9E	1	-	-	-	-	-	-	Suspended

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

(W)

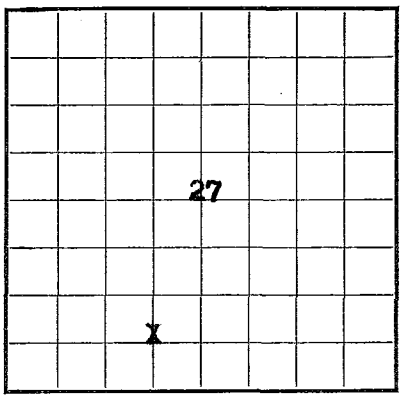
Form 9-329
(January 1950)

16—25766-8 U. S. GOVERNMENT PRINTING OFFICE

Bu... au No. 42-R355.4.
App... xpires 12-31-60.

Form 9-330

U. S. Land Office Salt Lake City, Utah
Serial Number L 065853
Lease or Permit to Prospect



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OCT 9 1958

LOG OF OIL OR GAS WELL

Company Shell Oil Company Address 705 Municipal Drive, Farmington, N.M.
Lessor or Tract Federal-North Springs Unit Field Wildcat State Utah
Well No. 1 Sec. 27 T. 15S R. 9E Meridian SLBM County Carbon
Location 660 ft. {N./S.} of S Line and 1980 ft. {E./W.} of W Line of Section 27 Elevation 6143KB
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed Original signed by B. W. SHEPARD

Date October 6, 1958 Title Exploitation Engineer

The summary on this page is for the condition of the well at above date.

Commenced drilling January 20, 1958 Finished drilling July 23, 1958

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 10589 to 10730(G) No. 4, from ... to ...
No. 2, from 11484 to 11702(G) CO2 No. 5, from ... to ...
No. 3, from ... to ... No. 6, from ... to ...

IMPORTANT WATER SANDS

No. 1, from ... to ... No. 3, from ... to ...
No. 2, from ... to ... No. 4, from ... to ...

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
13 3/8"	48	---	---	920	Baker	---	---	---	Surface
7"	32-29-26	---	---	10747	"	---	Not perforated		Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13 3/8"	910	865	Displacement	---	---
7"	10737	250 Pozmix + 50	"	---	---

MARK

FOLD

PLUGS AND ADAPTERS

Heaving plug—Material ---------- Length ---------- Depth set ----------

Adapters—Material ---------- Size ----------

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from 0 feet to 12737 feet, and from — feet to — feet

Cable tools were used from — feet to — feet, and from — feet to — feet

DATES

Suspended 7-27-58 until further evaluation of gas zone can be made and also as a source of fuel (to run rig engines) for next Unit well.

Put to producing ----------, 19----

The production for the first 24 hours was ---------- barrels of fluid of which ----% was oil; ----% emulsion; ----% water; and ----% sediment.

Gravity, °Bé. ----------

If gas well, cu. ft. per 24 hours ---------- Gallons gasoline per 1,000 cu. ft. of gas ----------

Rock pressure, lbs. per sq. in. ----------

EMPLOYEES

Mountain States Drilling Co.

H. L. Church, Driller

J. W. Sample, Driller

G. R. McCallum, Driller

----------, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
2485	2720	235	Ferron
2720	3085	365	Tununk
3085	3118	33	Dakota
3118	3868	750	Cedar Mountain
3868	3903	35	Buckhorn
3903	4795	892	Morrison
4795	4980	185	Curtis
4980	5712	732	Entrada
5712	6395	683	Carmel
6395	6754	359	Navajo
6754	6872	118	Kayenta
6872	7248	376	Wingate
7248	7542	294	Chinle
7542	7575	33	Shinarump
7575	8243	668	Moenkopi
8243	8704	461	Sinbad
8704	8880	176	Kiabab
8880	—	—	Coconino
11445	—	—	Redwall

[OVER]

16—43094-4

FD 4A 2-50 PRINTED IN U. S. A.

SHELL OIL COMPANY

WELL NO. 1

DRILLING REPORT

FOR PERIOD ENDING 4-24-58

Wildcat (FIELD)

Carbon, Utah (COUNTY)

T15S, R9E (SECTION OR LEASE)

(TOWNSHIP OR RANCHO)

DAY	DEPTHS FROM	DEPTHS TO	REMARKS
4-15	9000		DST No. 1. (8884-9000') Hydrology test of the Coconino. Ran Johnston tester with 7 1/2" bobtail packers at 8878' and 8884', 3 pressure recorders at 8871', 8993', and 8999', perforations from 8884'-8894' and 8994'-9000', 64' of air cushion, 3/4" bottom choke and 1" surface choke. Initial shut-in of 30 min., tool open 1 hr., immediate weak blow decreasing to faint at end of 1 hr. test, final shut-in of 1 hr. Recovered 110' of mud with spotty, bluish-yellow fluorescence, weight - 8.5 - 9/2 #/gal, salinity 7000-7700 ppm NACL (R). Salinity of mud before test-8000 ppm NACL (R), weight-9.4 #/gal. ISIBHP 1355 psi/30 min., FSIBHP-1630 psi/60 min. IFBHP/FFBHP -50 psi/ 100 psi. HP - 4475 psi.
4-16 to 4-20	9000	9220	Drilled 220'. Lost 600 bbls. of mud at 9211' and 300 bbls. of mud at 9110'.
4-21	9220	9242	Drilled 22'. Tight hole. Reamed 22' (9220'-9242')
4-22 to 4-23	9242	9298	Drilled 56'. Tight hole. Reamed 51' (9247'-9298')
4-24	9298	9369	Drilled 71'. Ran Christensen turbodrill at 9368'. Drilled 1 ft. in 2 hrs. Pulled turbodrill and ran conventional bit.

CONDITION AT BEGINNING OF PERIOD

HOLE SIZE	HOLE FROM	HOLE TO	CASING SIZE	DEPTH SET

DRILL PIPE SIZES

C. Bremer, Jr.

SIGNED

SHELL OIL COMPANY

WELL NO. 1

Wildcat
(FIELD)
Carbon, Utah
(COUNTY)

DRILLING REPORT
FOR PERIOD ENDING
5-26-58

27
(SECTION OR LEASE)
T15S, R9E
(TOWNSHIP OR RANCHO)

DAY	DEPTHS FROM	DEPTHS TO
5-25 -26	10718	

REMARKS

DST #2 (10,589-10,730) - Ran Halliburton tester, with 7 3/4" single end packers at 10,582' and 10,589', 3 pressure recorders at 10,571', 10,609', and 10,716' perforations from 10,589'-10,615 and 10,710-10,730, 90' of air cushion and 2000' of water cushion; 5/8" bottom choke and 1" surface choke, Initial shut-in of 30 min., tool open 2½ hrs., with faint blow immediately, increasing to weak blow after 1 min. and moderate blow after 5 min. continuing until measurable rate was obtained after 30 min., final shut-in of 2 hrs. Maximum flow rate was 2.6 MMCF/day and later stabilized at 1.8 MMCF/day for duration of test. Recovered approximately 1 quart of 52 API, straw-colored condensate above tool. ISIBHP/30 min - 5815 psi, FSIBHP/120m. 5635 psi, IFBHP/FFBHP - 1225 psi/ 670 psi and HP - 5995 psi.

Time	Gauges	Orifice Size	Flow Rate, MMCF/D
7:30	39	1½"	2.7
7:45	26		2.0
7:50	23		1.8
8:00	21		1.7
8:15	22		1.8
8:25	29		2.1
8:40	24		1.9
8:50	23		1.8
9:00	23		1.8

CONDITION AT BEGINNING OF PERIOD

HOLE SIZE	HOLE FROM	HOLE TO	CASING SIZE	DEPTH SET
DRILL PIPE SIZE				

C. BREMER JR.
SIGNED

SHELL OIL COMPANY

DRILLING REPORT
FOR PERIOD ENDING 6-28-59

Wildcat (FIELD)
Carbon, Utah (COUNTY)

Horse Springs Unit
WELL NO. 1
T15S, R9E (SECTION OR LEASE)
(TOWNSHIP OR RANGE)

DAY	DEPTHS FROM	DEPTHS TO	REMARKS
6-2 to 6-3	10,737	10,761	Drilled 2', Cored 22'. Core #6, 10,739-10,761, recovered 18'. Christensen 5 7/8" diamond core head # C-142. Core diameter - 2 1/8".
6-4 to 6-25	10,761	10,610	Drilled 849'. Lost 75 barrels of mud, 11588-11594.
6-26	11610	11652	Cored 42'. Core #7, 11610-11652, recovered 40.5'. Used Christensen 5 7/8" diamond core head # C-142.
6-27	11652	11702	Cored 50'. Core #8, 11652-11702, recovered 50'. Ran Schlumberger combination induction-ES log, microlog, and gamma-ray-neutron at 11702
6-28	11702		DST #3 (11484-11702) - Ran Johnston Tester with 5" bob-tail packers at 11479' and 11484'; 3 pressure recorders at 11469', 11690', and 11696'; perforations from 11484-11517 and 11685-11702', 90' of air cushion and 2000' of water cushion; ½" bottom choke and 1" surface choke. Initial shut-in of 30 min. tool open 3 hrs. with blow varying from 0 to very faint for 1st hour then increasing to moderate until a measurable rate was obtained after 2 hrs. and continuing for duration of test. Maximum flow rate was 2.15 MMCF/D of CO2 and later stabilized at 1.6 MMCF/D

CONDITION AT BEGINNING OF PERIOD

HOLE SIZE	HOLE FROM	HOLE TO	CASING SIZE	DEPTH SET
DRILL PIPE SIZE				

C. BREMER JR.
SIGNED

CARTER OIL COMPANY

North Springs Unit

DRILLING REPORT
FOR PERIOD ENDING 6-30-58

Wildcat (FIELD)

Carbon, Utah (COUNTY)

27 (SECTION OR LEASE)

T15S, R9E (TOWNSHIP OR RANGE)

DAY	DEPTHS FROM	DEPTHS TO	REMARKS
6-28	11702		Recovered 360 (1 bbl.) of black gassy water, salinity ranged from 11,000 to 14,000 ppm NACI (R). Salinity of drilling fluid before test was 5600 ppm NACI (R). ISIBHP/30m - 4565 psi., FSIBHP/90m - 4500 psi., IFP/FFP- 2230/2310 psi., HP - 5755 psi.

Time	Gauges, Psig	Orifice Size	Flow rate MCF/D
2:35	48	1/4"	66.7
2:38	58	1/4"	78.0

water to surface @ 2:42

3:45	38	1 1/2"	2150
4:00	30	1 1/2"	1800
4:10	27	1 1/2"	1670
4:25	25	1 1/2"	1600
4:35	25	1 1/2"	1600

6-29	11702	11754	Cored 52'. Core # 9, 11702-11754, recovered 52'. Used Christensen 5 7/8" diamond core head # C-142.
6-30	11754	11786	Drilled 36'. Reaming 5 7/8" hole to 6" from 11,610 to 11754. Lost bearings in hole from bit #204 - HTCW7R. Recovered w/junk sub after drilling up bearings.

CONDITION AT BEGINNING OF PERIOD

HOLE SIZE	HOLE FROM	HOLE TO	CASING SIZE	DEPTH SET

DRILL PIPE SIZES

C. BREMER JR.
SIGNED

DITCH SAMPLES

Examined by Bremer 2450 to ____
Oestrich ____ to ____

Well North Springs Unit #1
Field or Area Carbon County, Utah

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT
2450	2480	100%	Shale, gray-black, silty.	
2480	2503	60% 40%	Shale, as above. Siltstone, Gray	
2503	2506		Core #1 Sample Top Ferron 2490'	
2506	2510	50% 50%	Shale, black, silty Siltstone, white-gray, carbonaceous	
2510	2520	50% 50%	Siltstone, as above Sandstone, white, very fine, carbonaceous	
2520	2530	50% 30% 20%	Siltstone, as above Shale, gray, silty Coal	
2530	2537	100%	Shale, gray-brown, silty, carbonaceous	
2537	2557		Core #2	
2557	2569		Core #3	
2569	2576	100%	Sandstone, very fine to silty, tan, dirty, poorly-sorted with shale partings, gray, carbonaceous.	
2576	2580		Core #4	
2580	2586	100%	Shale, dark gray, silty, carbonaceous.	
3586	2594		Core #5	
2594	2600		Siltstone, brown, non-calcareous	
2600	2610	50% 50%	Siltstone, as above. Sandstone, brown, very fine to silty.	
2610	2630	100%	Siltstone, light gray, non-calcareous. Trace spotty sample fluorescence No cut fluorescence.	
2630	2640	100%	Siltstone, gray-brown, sandy in part, light gray, very fine, calcareous.	
2640	2650	100%	Siltstone, brown, calcareous.	
2650	2660	100%	Limestone, brown, III/I VFA, with Shale partings, silty, gray Sample Top - Tununk 2660'	

DITCH SAMPLES

Examined by Bremer 2660 to ____
Oestrich ____ to ____

Well North Springs Unit #1
Field or Area Carbon County, Utah

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT
2660	2680		Siltstone, dark gray, calcareous	
2680	2770		Shale, dark gray, carbonaceous, silty, calcareous.	
2770	2810		Siltstone, gray, glauconitic, calcareous.	
2810	2820		Siltstone, as above with bentonite parting, light gray, waxy, micaceous.	
2820	2870		Shale, dark gray, glauconite, silty, with occasional Siltstone partings, gray, glauconitic, micaceous.	
2870	2880		Siltstone, as above.	
2880	3070		Shale, as above with occasional Siltstone partings, as above.	
3070	3108		Siltstone, dark gray, glauconitic.	
3108	3130		Sandstone, white-tan, very fine, non-calcareous.	
			Sample Top - Dakota 3103'	
			Sample Top - [illegible] Mountain 3133'	

DITCH SAMPLES

Examined by Bremer 3360 to ____
Oestrich ____ to ____

Well North Springs Unit #1
Field or Area Carbon County, Utah

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT
3360	3390		Sandstone, as above, with Limestone partings, cream, IVFA.	
3390	3420		Sandstone, white-tan, very fine to medium, calcareous.	
3420	3440		Shale, gray-purple, waxy, sandy, calcareous.	
3440	3460		Shale, as above, with Limestone partings, cream, IVFA.	
3460	3470		Shale, green-purple-maroon.	
3470	3610		Shale, varicolored, as above with occasional Limestone partings, as above.	
3610	3780		Shale, as above with occasional Limestone partings, as above and dolomite partings, tan, III VFA	
3780	3790		Shale, purple-maroon, with Sandstone partings, white-light brown, very fine to medium, calcareous.	
3790	3810		Shale, as above with Limestone partings, tan, III/I VFA.	
3810	3820		Shale, as above, sandy in part, white to tan, very fine to fine.	
3820	3850		Shale, as above with Limestone partings, tan, III/I VFA.	
3850	3870		Sandstone, white, very fine to medium, dolomitic.	
3870	3880		Chert Conglomerate	
3880	3900		Chert Conglomerate, sandy in part, white, very fine to medium.	
			Sample Top - Morrison 3900'	
3900	3960		Shale, gray-green, with Limestone nodules.	
3960	3980		Shale, as above.	
3980	3990		Shale, dark gray, silty, calcareous.	
3990	4000		Shale, gray to green, sandy in part.	
4000	4010		Shale, green to purple, with Limestone nodules.	
4010	4060		Shale, as above with Chert nodules, tan, opaque.	
4060	4160		Shale, green to gray to purple, with occasional Limestone partings, tan, IVFA	
4160	4170		Shale, as above, with Sandstone partings, white, very fine to fine.	

DITCH SAMPLES

Examined by Bremer 4170 to ____
Oestrich ____ to ____

Well North Springs Unit #1
Field or Area Carbon County, Utah

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT
4170	4210		Shale, varicolored, gray to green to purple.	
4210	4220		Shale, as above with Limestone parting, tan, III/I VFA, silty.	
4220	4230		Shale, as above, silty in part.	
4230	4240		Shale, as above with Limestone partings,as above.	
4240	4250		Shale, as above with Sandstone partings,gray, very fine.	
4250	4260		Shale, as above with Limestone partings,as above.	
4260	4270		Shale, gray to green, silty.	
4270	4330		Shale, as above with orange chert nodules.	
4330	4350		Shale, as above.	
4350	4360		Shale, as above with Chert, as above.	
4360	4370		Shale, as above.	
4370	4380		Shale, as above with Limestone partings,tan, IVFA	

DITCH SAMPLES

Examined by Seely 4380 to 6020
Shepard ___ to ___

Well North Springs Unit #1
Field or Area Carbon County, Utah

SAMPLES/LAGGED Not

FROM	TO	%	SHOWS UNDERLINED
4380	4480	100	Shale, light gray, purple, maroon, cherty in part. Some Limestone, tan, IVFA.
4480	4500	100	Shale, maroon, stringers anhydrite.
4500	4790	100	Shale, gray green, purple, lavender, pale green, brick red.
4790	5010	100	Sandstone, white, very fine, glauconitic. (Samples very poor)
5010	5080	100	Siltstone, maroon, streaks sandstone.
5080	5130	100	Sandstone, maroon, very fine.
5130	5160	100	Siltstone, maroon.
5160	5340	100	Sandstone, maroon, very fine to silty.
	Examined by Bremer and Seely		
5300	5380	100	Sandstone, maroon, very fine to silty, shaly in part, brick red.
5380	5430	100	Sandstone, as above.
5430	5500	100	Siltstone, maroon, shaly in part, brick red.
5500	5600	100	As above.
5600	5630	100	As above. (Sample Poor)
5630	5730	100	Shale, maroon to brick red. "
5730	5760	100	Shale, as above with Limestone nodules. "
5760	5830	100	Claystone, green, silty in part. "
5830	5960	100	Shale, gray-green, dolomitic.
5960	5990	100	Shale, as above.
5990	6000	100	Shale, as above with sandstone partings, very fine, tan.
6000	6010	100	Shale, gray-green, calcareous.
6010	6020	100	Shale, as above with sandstone partings, as above.

DITCH SAMPLES

Examined by Bremer 6020 to 6320
Oestrich ___ to ___

Well North Springs #1
Field or Area Carbon County, Utah

SAMPLES/LAGGED Not

FROM	TO	%	SHOWS UNDERLINED
6020	6040	100	Shale, gray-green, calcareous, silty in part.
6040	6050	100	Shale, as above with dolomite partings.
6050	6110	100	Siltstone, light brown, with anhydrite partings.
6110	6120	100	Shale, gray-green, silty.
6120	6130	50	Shale, as above.
		50	Siltstone, as above.
6130	6180	100	Shale, as above with limestone partings, brown, IVFA.
6180	6190	50	Siltstone, green, calcareous.
		50	Limestone, brown, IVFA.
6190	6200	100	Shale, gray-green, calcareous with limestone partings, as above.
6200	6240	50	Shale, as above.
		50	Limestone, as above.
6240	6250	100	Limestone, IVFA, brown.
6450	6260	50	Limestone, as above with anhydrite inclusions.
		50	Shale, brown, calcareous.
6260	6270	100	As above.
6270	6280	100	As above, but Limestone, oolitic.
6280	6290	50	Limestone, IVFA, brown, oolitic.
		50	Siltstone, brown, calcareous with sandy partings, brown, very fine.
6290	6300	100	Siltstone, as above. (Poor sample)
6300	6310	100	Siltstone, as above.
6310	6320	50	Siltstone, as above.
		50	Limestone, brown, IVFA, oolitic.
6320	6330	50	Limestone, brown, IVFA, oolitic.
		50	Anhydrite.
6330	6340	100	Siltstone, brown, calcareous.
6340	6350	100	Siltstone, brown, calcareous.
6350	6360	50	Siltstone, as above.
		50	Sandstone, brown, calcareous, very fine.

DITCH SAMPLES

Examined by Bremer 6360 to 7190
Oestrich ___ to ___

Well North Springs Unit #1
Field or Area Carbon County, Utah

Not
SAMPLES/ LAGGED NOT

FROM	TO	%	SHOWS UNDERLINED
6360	6370	50	Siltstone, as above.
		50	Limestone, IVFA, brown, oolitic.
6370	6390	100	Shale, gray-green, calcareous with limestone partings, tan IVFA and anhydrite inclusions.
			Sample Top: Navajo - 6390'.
6390	6440	100	Sandstone, white-tan, very fine, dolomitic.
6440	6460	100	Sandstone, white, very fine-fine, friable.
6460	6480	100	Sandstone, as above.
6480	6530	100	Sandstone, tan, dolomitic, very fine-fine.
6530	6550		Samples Missing.
6550	6660	100	Sandstone, white-red, very fine-medium, well rounded to subrounded.
6660	6670	100	Sandstone, as above.
6670	6680	100	Sandstone, red, very fine-fine, hard or well cemented.
6680	6690	100	Sandstone, white-tan, very fine-fine, friable.
6690	6750	100	Sandstone, white-red, very fine-fine.
6750	6770	100	Sandstone, white-red, very fine-medium, with red shale partings.
6770	6790	100	Sandstone, as above, with maroon shale partings.
6790	6800	100	Sandstone, as above.
6800	6830	100	Sandstone, as above.
6830	6850	100	Sandstone, as above with red shale partings, silty.
6850	6930	100	Sandstone, red to tan, very fine-fine, with shale partings, red-brown, silty.
6930	6940	100	Sandstone, red, very fine-fine.
6940	6990	100	Sandstone, as above.
6990	7060	100	Sandstone, as above.
7060	7130	100	Sandstone, as above.
7130	7190	100	Sandstone, as above.

DITCH SAMPLES

Examined by Bremer 7190 to 7770
Oestrich ___ to ___

Well North Springs Unit #1
Field or Area Carbon County, Utah

SAMPLES/LAGGED Not

FROM	TO	%	SHOWS UNDERLINED
7190	7240	100	Sandstone, as above.
7240	7260	100	Sandstone, as above with interbedded brick red Shale.
7260	7270	100	Sandstone, as above with shale partings, as above.
			Tentative Sample Top: Chinle - 7270
7270	7280	100	Siltstone, red-orange, with red shale partings.
7280	7290	100	Shale, brick red, dolomitic, silty in part.
7290	7310	100	Siltstone, red-orange, dolomitic, shaly in part.
7310	7320	100	Shale, brick red, dolomitic, silty in part.
7320	7350	100	Siltstone, red-orange, dolomitic.
7350	7370	100	Shale, brick red, dolomitic.
7370	7380	100	Shale, as above, silty in part.
7380	7400	100	Shale, as above, with limestone inclusions, tan IVFA.
7400	7440	100	Shale, as above.
7440	7470	100	Shale, as above.
7470	7500	100	Shale, brick red, non-calcareous, with brown-yellow mottling.
7500	7550	100	Shale, as above, dolomitic, with green mottling.
7550	7560	100	Shale, as above.
7560	7590	100	Shale, maroon, dolomitic, silty in part, occasional orange chert fragments.
7590	7650	100	Siltstone, maroon-purple, with occasional red shale partings.
			Examined by Bremer and Seely
7650	7680	100	Siltstone, brown-brick red, dolomitic.
7680	7690	100	Shale, brick red with some purple shale.
7690	7700	100	Shale, brick red with siltstone partings, brick red.
7700	7740	100	Siltstone, brown, dolomitic, micaceous.
7740	7770	100	As above.

DITCH SAMPLES

Examined by Bremer 7770 to 8290
Seely ___ to ___

Well North Springs Unit #1
Field or Area Carbon County, Utah
Not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES/LAGGED
7770	7810	100	Siltstone, as above, brick red.	
7810	7820	100	Shale, brick red, dolomitic, micaceous.	
7820	7830	100	Siltstone, white-green, dolomitic.	
7830	7850	100	Siltstone, brown, dolomitic, micaceous.	
7850	7880	100	Shale, brown-maroon, dolomitic, silty.	
7880	7900	100	Siltstone, brick red, dolomitic.	
7900	7960	100	Shale, brick red-brown, dolomitic, silty in part.	
7960	7990	100	Shale, brick red, dolomitic, silty in part.	
7990	8000	100	Shale, as above.	
8000	8030	100	Shale, as above with partings of chocolate-yellow shale.	
8030	8040	100	Shale, brown, dolomitic, silty in part.	
8040	8060	100	Shale, as above.	
8060	8090	100	Siltstone, brick red, dolomitic, with occasional dolomite nodules.	
8090	8100	100	Shale, as above.	
8100	8110	50	Shale, as above.	
		50	Siltstone, green, dolomitic.	
8110	8120	100	Shale, brick red, dolomitic.	
8120	8140	100	Siltstone, white-light green, dolomitic, spotty dead oil residue, very faint milky cut fluorescence.	
8140	8150	100	Siltstone, White, dolomitic, spotty dead oil residue, poor milky yellow cut fluorescence.	
	Examined by Bremer and Oestrich			
8150	8210	100	Siltstone, white-gray, dolomitic, Spotty Dead Oil Residue, Fair Milky Cut Fluorescence.	
8210	8230	100	Siltstone, gray, dolomitic.	
8230	8290	80	Siltstone, gray, dolomitic, Spotty Dead Oil Residue, Trace of Spotty Fluorescence, Fair Milky Cut Fluorescence.	
		20	Dolomite, white, IVFA, oolitic, Spotty Dead Oil Residue, Trace Spotty Fluorescence, Fair Milky Cut Fluorescence.	

DITCH SAMPLES

Examined by Bremer 8290 to 8760
Oestrich ___ to ___

Well North Springs Unit #1
Field or Area Carbon County, Utah

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NoT
8290	8300	50	Siltstone, gray, dolomitic.	
		50	Limestone, gray, IVFA.	
			Sample Top: Sinbad - 8295'.	
8300	8320	100	Limestone, gray to tan, IVFA.	
8320	8330	50	Limestone, as above.	
		50	Siltstone, gray, calcareous.	
8330	8340	100	Limestone, tan, I/II VFA, Dead Oil Residue, Trace Spotty Fluorescence, Faint Milky Cut Fluorescence.	
8340	8350	100	Limestone, White III/IVFA, oolitic, Dead Oil Residue, 2% Spotty Fluorescence, Fair Milky Cut Fluorescence.	
8350	8385	100	Limestone, White, III/IVFAB, oolitic, Heavy Tarlike Residue, 3% Spotty Fluorescence, Fair Milky Cut Fluorescence.	
8385	8620	100	Siltstone, White-light gray-brown, dolomitic, Dead Oil Residue, Faint Milky Cut Fluorescence.	
8620	8670	100	Siltstone, White-light green, dolomite, with occasional shale partings.	
8670	8710	100	Shale, white-light green, dolomitic, silty in part.	
8710	8720	50	Siltstone, dark gray, dolomitic, with Dead Oil Residue.	
		50	Dolomite, gray, IVFA, with chert.	
8720	8730	50	Sandstone, dark gray, very fine-medium, poorly sorted, with Dead Oil Residue.	
		50	Chert, White-gray.	
8730	8740	50	Siltstone, dark gray, sandy in part, with Dead Oil Residue.	
		50	Chert, as above, with Dead Oil Residue.	
8740	8760	40	Dolomite, gray, IVFA, silty, with Dead Oil Residue.	
		40	Siltstone, dark gray, dolomitic, sandy in part, with Dead Oil Residue.	
		20	Chert, as above.	

DITCH SAMPLES

Examined by Bremer 8760 to 8960
Oestrich ___ to ___
Shepard 8960 to 9130

Well North Springs Unit #1
Field or Area Carbon County, Utah

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT
8760	8780	100	Siltstone, dark gray, Dolomite, sandy in part, good dead oil residue, no sample fluorescence, faint cut fluorescence	
8780	8790	50	Siltstone, as above	
		50	Dolomite, white - gray, I/III VFA, dead oil residue, no sample fluorescence or cut fluorescence	
8790	8800	100	Dolomite, white - gray, I VFA, dead oil residue	
8800	8800	100	Dolomite, white - gray, I-III VFA, dead oil residue	
8860	8870	40	Sandstone, very fine, light green, Dolomite.	
		20	Dolomite, light green IVFA	
8870	8880	50	Dolomite, as above, glauconitic	
		50	Chert, as above	
8880	8940	100	Tentative Sample Top - Coconino 8880'	
		100	Sandstone, white - gray, very fine to fine, some medium quartz grains, spotty dead oil residue, no sample fluorescence or cut fluorescence	
8940	8960	100	Sandstone, white, as above	
8960	9030	100	Sandstone, white, very fine to medium, sub-round to round, firm to friable	
9030	9085	100	Sandstone, white to slight pink, non-calcite, very fine to medium, well rounded, generally friable, porosity appears poor.	
9085	9100	100	Dolomite, tan to brown, IVFA, gray chert	
9100	9105	100	Sandstone, white to slight pink, very fine to medium	
9105	9115	100	Dolomite, brown, IVFA, slightly cherty, Anhydrite inclusions	
9115	9125	85	Sandstone, white to slight pink	
		15	Dolomite, IVF-MA	
9125	9130	100	Dolomite, brown, IVFA, trace Anhydrite	
9130	9155	90	Sandstone, white to tan, very fine to medium, generally friable, porosity appears poor	
		10	Dolomite, brown, IVFA	
9155	9185	100	Sandstone, white, very fine to medium, generally friable, porosity appears poor	

DITCH SAMPLES

Examined by Bremer ___ to ___
Oestrich ___ to ___
Shepard

Well North Springs Unit #1
Field or Area ___

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT
9185	9220	100	Sandstone, white, very fine to fine, generally friable, porosity appears poor	
9220	9250	100	Sandstone, as above	
9250	9275	100	Sandstone, white, very fine to fine, generally friable, porosity appears poor	
9175	9285	100	Sandstone, white, very fine to mediu, friable to firm, porosity appears poor to nil	
9285	9295	100	Sandstone, as above, with trace Dolomite, IVFA	
9295	9305	100	Sandstone, as above	
9305	9330	100	Sandstone, white very fine to medium, friable to firm, porosity appears poor to nil	
9330	9340	100	Sandstone, white very fine to fine, friable to firm, porosity appears poor to nil	
9340	9350	100	Sandstone, as above	
			EXAMINED BY BREMER & SEELY	
9350	9380	100	Sandstone, white, very fine to fine, poor porosity, with Dolomite streaks, gray, IVFA	
9380	9385	100	Sandstone, as above with trace chert fragments	

DITCH SAMPLES

Examined by Shepard 9130 to 9525
Seeley ____ to ____

Well North Springs Unit #1
Field or Area Carbon County, Utah

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT
9385	9415	100	Sandstone, white, very fine to fine, dolomitic	
9415	9425	100	Dolomite, tan-cream, IVFA, sandy in part	
9425	9440	100	Dolomite, as above and Sandstone, cream, very fine to medium, Dolomite partings	
9440	9460	100	Sandstone, white, very fine to medium, well-rounded, trace spotty dead oil stain, no sample fluorescence or cut fluorescence	
9460	9470	100	Sandstone, as above with partings brick red Siltstone	
9470	9475	100	Sandstone, as above with Dolomite partings pink, IVFA	
9475	9480	100	Sandstone, as above, Dolomite, with Siltstone partings, maroon-cream	
9480	9485	100	Sandstone, as above with Dolomite partings, brown, IVFA	
9485	9495	100	Sandstone, tan-white, very fine to fine, Dolomitic	
9495	9505	100	Sandstone, as above, very fine to medium	
9505	9510	100	Sandstone, white, Dolomitic, very fine to fine	
9510	9525	100	Dolomite, tan, IVFA, sandy	
9525	9535	100	Sandstone, white, very fine to fine, Dolomitic	
9535	9545	100	Dolomite, tan, IVFA, sandy	
9545	9570	100	Sandstone, white, very fine to fine, Dolomitic, trace spotty dead oil residue, no sample fluorescence, poor milky yellow cut fluorescence 45-50, no cut fluorescent from 50-70.	
9570	9585	50	Sandstone, as above	
		50	Dolomite, cream, IVFA, B, sandy in part with chert fragments, trace spotty dead oil residue, poor milky yellow cut fluorescence, no sample fluorescence	
9585	9625	50	Sandstone, as above	
		50	Dolomite, as above, IVFA, B,	
9625	9685	100	Sandstone, as above with Dolomite partings, as above sandy with chert fragments, 65-70 brown Shale partings, glauconitic	
9685	9690	100	Dolomite, cream, III/IVFA with brown Siltstone partings	
9690	9715	100	Dolomite, tan-brown, III/IVFA with Sandstone partings, white, very fine to fine, Dolomitic, with chert fragments	

DITCH SAMPLES

Examined by Bremer / Oestrich 9885 to 10,400 / ___ to ___

Well North Springs Unit #1

Field or Area Carbon County, Utah

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT
9885 - 9895			Sandstone, white, VF-F, Dolomite.	
9895 - 9905			Dolomite, tan, IVFA, Sandy and chert fragments.	
9905 - 9920			Sandstone, as above with Dolomite, as above and Chert.	
9920 - 9940			Dolomite, tan, I-III VFA with Chert fragments.	
9940 - 9950			Sandstone, as above with Dolomite, as above.	
9950 - 9980			Limestone, Dolomite, tan, I/III VFA with sandstone partings, as above and Chert fragments.	
9980 - 10005			Limestone, Dolomite, as above with Sand partings and chert fragments.	
10005 - 10025			Dolomite, tan, IVFA, sandy with sandstone partings, slit to VF, white with chert.	
10025 - 10040			Limestone, tan, I/III VFA with chert. Dead oil staining, no sample fluorescence or cut fluorescence.	
10040 - 10075			Limestone, Tan, I/III VFA, sandy, with chert.	
10075 - 10120			Limestone, as above but II/IVFA with chert.	
10120 - 10190			Limestone, Tan, I/IIVFA with chert.	
10190 - 10245			Limestone, As above with sandstone partings, white Vf-f-10-15, With traces chert. Trace spotty dead oil, no sample fluorescence or cut fluorescence.	
10215 - 10220			Limestone, Tan, IVFA with abundant chert. Trace spotty dead oil.	
10220 - 10270			Limestone, Tan, I-IIVFA; Sandy. Dead oil, no sample fluorescence or cut fluorescence.	
10270 - 10295			Limestone, Tan-Brown, I-IIVFA, Sandy with Chert.	
10295 - 10335			Limestone, As above, with abundant chert, Traces dead oil residue from 10,305-10,330, No sample fluorescence. Pale milky cut fluoresence.	
10335 - 10345			Limestone, Tan, IVFA, Sandy.	
10345 - 10355			Sandstone, White-Cream, VF, Calcareous.	
10355 - 10370			Silstone, Dark Gray, Dolomite with chert fragments. Spotty dead oil residue, no sample fluorescence. Pale milky yellow cut fluoresence 355-365	
10370 - 10400			Dolomite, Brown, I-IIVFA, with occasional chert fragments, Spotty dead oil residue, no sample fluorescence. Pale milky yellow cut fluorescence, 375-385	

DITCH SAMPLES

Examined by Bremer 10,400 to 10,650
Seely ____ to ____

Well North Springs Unit #1
Field or Area Carbon County, Utah

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT
10,400-10,415			Limestone, Light Brown, I-IIVFA	
10,415-10,440			Dolomite, Tan, I-IIVFA, Sandy	
10,440-10,465			Dolomite, Tan, IVFA, Sandy with sandstone partings, white, VF, Dolomitic.	
10,465-10,475			Limestone, Dark Brown, IVFA, Sandy	
10,475-10,485			Shale, Dark Gray, Silty, Calcareous with limestone partings, Dark Brown, IVFA	
10,485-10,490			Shale, As above with black shert fragments	
10,490-10,505			Limestone, Dark Brown, IVFA with occasional black chert fragments.	
10,505-10,510			Limestone, Tan, IVFA	
10,510-10,520			Limestone, Brown-Dark Brown, IVFA	
10,520-10,540			Shale, Dark Gray, Calcareous	
10,540-10,545			Limestone, Dark Brown, IVFA	
10,545-10,555			Limestone, Tan-Brown, IVFA	
10,555-10,565			Limestone, As above with Shale paring, Dark Gray-Gray, Calcareous	
10,565-10,575			Limestone, As above with Sandstone parting, white silt to VF, Calcareous	
10,575-10,580			Sandstone, White, VF, Calcareous	
10,580-10,585			Shale, Gray, Calcareous, Carbonaceous	
10,585-10,595			Sandstone, White, VF-F, Calcareous, with Dead Oil Residue, no sample fluorescence, very pale yellow cut fluorescence	
10,595-10,605			Shale, Dark Gray, non-calcareous, silty with sandstone parting, white, VF., Dead oil residue, no sample fluorescenceor cut fluorescence	
10,605-10,610			Shale, As above with coal partings	
10,610-10,615			Siltstone, Dark Gray, Calcareous with dead oil residue, no sample fluorescenc no cut fluorescence	
10,615-10,620			Shale, Dark Gray, Calcareous with limestone partings, Dark Brown, IVFA	
10,620-10,625			Siltstone, Dark Gray, Gray, with dead oil residue, no sample fluorescence no cut fluorescence	
10,625-10,650			Sandstone, White, VF, Calcareous with shale partings, As above with dead oil residue, no sample fluorescence no cut fluorescence.	

DITCH SAMPLES

Examined by Bremer 10,650 to 10,855
Seely ____ to ____

Well North Springs Unit #1
Field or Area Carbon County, Utah

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT

10,650-10,665 Shale, Dark Gray, Silty, Carbonaceous, Sandstone, white, VF, Calcareous, Limestone, Brown, IVFA, All interbedded.

10,665-10,720 Shale, As above interbedded with Sandstone, As above coal parting 65-75.

10,720-10,735 Shale, As above interbedded with Sandstone, As above

10,735-10,739 Shale, As above

Core #6, 10,739-20,761, Recovered 18'

10,739-10,742 Shale, Black, Carbonaceous

10,742-10,745 Shale, As above but calcareous

10,745-10,747 Shale, Black Carbonaceous, Calcareous, very soft (Poker-chip)

10,747-10,753 Shale, Black, Calcareous, Carbonaceous

10,753-10,755 Limestone, Brown, IVFA, Very Argillaceous

10,755-10,757 Shale, As above

10,757-10,761 No Record

10,760-10,765 Shale, Gray, Carbonaceous, with sandstone parting, white, VF, -Fair Porosity and Limestoneparting, Tan, IVFA,-sandstone had no sample fluorescence but fair milky cut fluorescence

10,765-10,770 As Above, but Calcite-filled fractures in the shale - sandstone had no sample fluorescence, very faint milky cut fluorescence

10,770-10,775 Shale, As above with limestone partings, tan-gray, IVFA, Argillaceous

10,775-10,780 Limestone, Brown, IVFA, very Argillaceous, with sandstone partings, white VF, no sample for fluorescence or cut fluorescence.

10,780-10,785 Limestone, As above

10,785-10,800 Shale, Dark Gray, Carbonaceous, with Calcite veining and limestone partings, As above

10,800-10,805 Shale, Dark Gray, Carbonaceous, Calcareous

10,805-10,840 Shale, Dark Gray-Black, Carbonaceous, Calcareous with occasional Limestone partings, Dark Gray, IVFA, Very Argillaceous

10,840-10,845 Shale, Light Brown, Carbonaceous, Non-Calcareous

10,845-10,850 Shale, As above with Trace Calcite veining

10,850-10,855 Shale, As above with Limestone partings, Tan, IVFA - Calcite Veining

DITCH SAMPLES

Examined by Bremer 10,855 to 11,155
Oestrich ____ to ____

Well North Springs Unit #1
Field or Area Carbon County, Utah

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT
10,855-10,860			Limestone, Tan-Light Green, IVFA with Shale Parting, Dark Gray, Calcite Veining.	
10,860-10,870			Shale, Brown-Gray, Calcareous, Carbonaceous, with Limestone partings, Tan, IVFA, with Calcite Veining	
10,870-10,875			Shale, As above	
10,875-10,885			Siltstone, Gray, Calcareous, Carbonaceous	
10,885-10,890			Shale, Gray-Red, Calcareous	
10,890-10,900			Siltstone, Gray-Red, Calcareous	
10,900-10,928			Siltstone, Brick Red, Calcareous	
			Tentative Sample Top - Humbug - 10,928'	
10,928-10,940			Limestone, Light Gray, IVFA, Sandy, 20% VF quartz	
10,940-10,945			Sandstone, White, VF, Calcareous	
10,945-10,965			Limestone, White-Tan, IVFA, Sandy, 30% silt-VF quartz	
10,965-10,985			Siltstone, White-Light Green, Calcareous	
10,985-11,000			Limestone, Gray, IVFA	
11,000-11,010			Limestone, Dark Gray, IVFA	
11,010-11,025			Sandstone, White-Light Gray, Silt-VF	
11,025-11,040			Sandstone, As above with chert fragments	
11,040-11,055			Limestone, Dark Brown, IVFA	
11,055-11,080			Sandstone, White-Tan, VF, slightly calcareous-occasional chert fragments	
11,080-11,090			Limestone, Dark Gray, IVFA with Anhydrite inclusions	
11,090-11,115			Limestone, Brown, IVFA	
11,115-11,120			Anhydrite, White	
11,120-11,125			Siltstone, Light Gray, Dolomitic	
11,125-11,135			Sandstone, Light Gray, Tan, Dolomitic, VF-F	
11,135-11,145			Limestone, Dark Brown, IVFA, with anhydrite inclusions	
11,145-11,155			Sandstone, Gray, VF-F, Calcareous	

DITCH SAMPLES

Examined by Bremer 11,155 to 11,415
Seely ____ to ____

Well North Springs Unit #1
Field or Area Carbon County, Utah

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT
11,155-11,160			Sandstone, Gray, VF-F, Calcareous	
11,160-11,165			Limestone, Dark Brown, IVFA	
11,165-11,170			Sandstone, Gray, VF-F, Calcareous	
11,170-11,185			Limestone, Gray-Tan, IVFA	
11,185-11,200			Limestone, As above with abundant anhydrite	
11,200-11,210			Sandstone, Gray, VF-F, Calcareous	
11,210-11,230			Limestone, Brown, IVFA	
11,230-11,240			Shale, Maroon, Calcareous	
11,240-11,265			Sandstone, White-Gray, VF-M, Calcareous	
11,265-11,275			Sandstone, White-Gray, VF, Calcareous	
11,275-11,285			Sandstone, White-Tan, VF-M, Calcareous	
11,285-11,310			Limestone, Tan, IVFA with Calcite-filled fractures and dead-oil staining on fracture planes. No sample fluorescence or cut fluorescence	
11,310-11,330			Limestone, As above with Anhydrite inclusions	
11,330-11,335			Sandstone, Tan, VF-M, Dolomitic	
11,335-11,355			Sandstone, Gray, VF-F, Dolomitic	
11,355-11,360			Dolomite, Tan, IVFA, Sandy	
11,360-11,370			Dolomite, Tan, IVFA with sandstone parting, VF-F, Dolomite with abundant black residue, No sample fluorescence or cut fluorescence	
11,370-11,375			Dolomite, Cream, IVFA with Black Residue, No sample fluorescence or cut fluorescence	
11,375-11,380			Dolomite, Cream, IVFA, Sandy - 15% VF Quartz grains	
11,380-11,395			Sandstone, VF-F, Dolomite, Gray with Black Residue, No sample fluorescence or cut fluorescence	
11,395-11,410			Dolomite, Tan, IVFA, with spotty black residue, no sample fluorescence or cut fluorescence	
11,410-11,415			Sandstone, Tan, VF-F, Dolomite, Black Residue, As Above	

Tentative Sample Top - Redwall - 11,415'

Dolomite, Tan-Brown, IVFA

DITCH SAMPLES

Examined by Bremer 11,435 to 11,600
Seely ___ to ___

Well North Springs Unit #1
Field or Area Carbon County, Utah

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT

11,415-11,445 Dolomite, Tan, IVFA with Chert Inclusions - Black Residue, As above

11,445-11,460 Dolomite, Tan-Brown, IVFA - Black Residue, As Above

11,460-11,465 Dolomite, Brown, IVFA - Black Residue, No sample fluorescence or cut fluorescence with sandstone partings, white, VF-F,

11,465-11,470 Dolomite, As above

11,470-11,485 Dolomite, Brown, IVFA- Black Residue, As above - Calcareous-filled veinlets

11,485-11,490 Dolomite, As Above with sandstone partings, White, VF, Trace Chert, Dolomitic

11,490-11,500 Dolomite, Brown, IVFA with tracer B, Black Residue, No sample fluorescence or cut fluorescence

11,500-11,510 Dolomite, Brown, IVFA B_2 C_{trace}, Black Residue, No sample fluorescence or cut fluorescence

11,510-11,520 Dolomite, Brown, IVFA, B, Black Residue, No sample fluorescence or cut fluorescence

11,520-11,525 Dolomite, Brown, I-IIIVFA B_{tracer}, Black Residue, No sample fluorescence or cut fluorescence

11,525-11,530 Limestone, Tan, IVFA with Calcite Veining, no sample fluorescence or cut fluorescence

11,530-11,540 Dolomite, Gray, IVFAB_1 with Calcite Veining, no sample fluorescence or cut fluorescence

11,540-11,550 Dolomite, Brown-Tan, I-III VFA, no sample fluorescence or cut fluorescence

11,550-11,560 Dolomite, Cream-Brown, I-IIVFA with Chert, no sample fluorescence or cut fluorescence

11,560-11,570 Dolomite, Tan-Brown, IVFA B_{trace}, with chert, no sample fluorescence or cut fluorescence

11,570-11,575 Dolomite, Tan, IVFA with sandstone partings, white Vf, Dolomite, no sample fluorescence or cut fluorescence

11,575-11,580 Dolomite, Tan, IVFA with chert, no sample fluorescence or cut fluorescence

11,580-11,585 Dolomite, Brown, I-III VFA B_{trace}, no sample fluorescence or cut fluorescence

11,585-11,600 Dolomite, As above with chert and Calcite Veining, no sample fluorescence or cut fluorescence

DITCH SAMPLES

Examined by Bremer 11,600 to 11,855
Seely ___ to ___
Oestrich

Well North Springs Unit #1
Field or Area Carbon County, Utah

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT
11,600-11,610			Dolomite, Tan, III-I VFA B_{trace}, no sample fluorescence or cut fluorescence	
11,610-11,652			Core # 7	
11,652-11,702			Core # 8	
11,702-11,754			Core # 9	
11,754-11,770			Dolomite, Tan, III/IVFA with trace chert	
11,770-11,780			Dolomite, Tan, III/IVFA B_{trace} with black residue, as above Trace Chert - 75-80	
11,780-11,805			Dolomite, Tan-Light Brown, I/III VFA B_{trace} with black residue, as above	
11,805-11,830			Dolomite, Tan, III/IVFA B_{trace} with black residue, as above	
11,830-11,855			Dolomite, Tan, III/IVFA B_{trace}, trace chert	

DITCH SAMPLES

Examined by Bremer 11855 to 11,095
Oestrich ___ to ___
Shepard 11,095 to 12,375

Well North Springs Unit #1
Field or Area Carbon Co., Utah

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT
11855	11865		Dolomite, Tan, III VFA with trace chert	
11865	11875		Dolomite, Cream, III VFA B_{trace} with Black residue, No sample fluorescence or cut fluorescence	
11875	11885		Dolomite, Tan, III/I VFA B_{trace} with Black residue, No sample fluorescence or cut fluorescence	
11885	11895		Dolomite, Tan, I/III VF-FA B_{trace} with Black residue, No sample fluorescence or cut fluorescence	
11895	11900		Dolomite, Tan, I/III VFA with Trace Chert	
11900	11920		Dolomite, Tan, I/III VFA B_{trace} with Black Residue, As Above	
11920	11930		Dolomite, Tan, III VFAB_1C_1	
11930	11935		Dolomite, Tan III VFA B_{trace}	
11935	11955		Dolomite, Tan, I/III VFA with Trace Chert	
11955	11970		Dolomite, Tan, I/III VFA B_{trace} with abundant chert (Possibly Bedded)	
11970	11975		Dolomite, Tan, IVFA with trace chert	
11975	12035		Dolomite, Tan, I/IIIVFA with abundant chert - (Possibly Bedded)	
12035	12075		Dolomite, Brown-Dark Brown, I/III VFA with trace chert	
12075	12085		Dolomite, Brown, I/IIIVFA	
12085	12095		Dolomite, Tan, I/IIIVFA with chert fragments	
12095	12170		Dolomite, Brown, IVFA, chert	
12170	12215		Dolomite, Brown, III-IVFA + Trace B_1, with black residue	
12215	12230		Dolomite, Light Brown, IVFA + Trace B_1, Trace black residue	
12230	12250		Dolomite, Brown, III-IVFA + B_{1-2} Trace black residue	
12250	12265		Dolomite, Brown, III-IVFA + B_{1-2} + Trace C_1 black residue	
12265	12300		Dolomite, Brown, IVFA Trace black residue 12,265-70	
12300	12305		Dolomite, Brown, III-IVFA	
12305	12310		Dolomite As Above, with Trace B and C porosity	
12310	12330		Limestone, Tan, III VF-FA, oolitic	

DITCH SAMPLES

Examined by Kazarian 12375 to 12475
Aubert 12495 to 12737
Seeley & Oestrich

Well N. Springs Unit 1
Field or Area Carbon County, Utah

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT
12330	12350		Dolomite, Brown, III VF-FA, trace B_1 and C_1	
12350	12360		Limestone, Brown, III VF-FA, oolitic	
12360	12375		Dolomite, Light Brown, IVFA	
12375	12395	100	Limestone, brown, III FA, oolitic - No shows.	
12395	12555	100	Dolomite, light brown, No shows.	
12555	12570	100	Dolomite, as above, dark brown, Tentative sample top Ouray, 12565	
12570	12650	100	Limestone, brown, IVFA, pseudo-oolitic, No shows.	
12650	12660	100	Sandstone, white-light gray, round to subround, slightly dolomitic, no shows. Tentative sample top Elbert 12650	
12660	12685	100	Dolomite, light blue gray, III VF-FA, with some IVF-FA, no shows.	
12685	12737	100	Siltstone, light green, dolomitic, Tentative sample top Cambrian, 12685	

TD 12737

FD 4-B 8-50

SHELL OIL COMPANY

CORE RECORD

WEEK ENDING 6-28-58

CORE FROM 11652 TO 11702

CORES EXAMINED BY Bremer, Oestrich

AREA OR FIELD Carbon County, Utah

COMPANY Shell Oil Company

LEASE AND WELL NO. North Springs 1

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL—GAS / CORE OR DITCH
8	11652	11702	50				
	11652	11653	1	Dolomite, Gray, III VFA			Minor Gas Bubbles Throughout Porosity-Black Residue in some of the Vugs
	653	656	3	Dolomite, Dark Gray, III VFA, Argillaceous			
	656	658	2	Dolomite, Tan, III/I VFA with Calcite inclusions			
	658	661	3	Dolomite, Light Gray, III/IVFA, Argillaceous.			
	661	665	4	Dolomite, Tan, III/IVFAB_2C_1			
	665	665.5	.5	Dolomite, Tan, III/I VF-MA with Abundant Pyrite.			
	665.5	666.5	1	Dolomite, Tan, IVF-MAB.			
	666.5	676	10.5	Dolomite, Brown, IVFA, Argillaceous, with Calcite-Healed Fractures			
	676	678	2	Dolomite, Brown, IVFA, with Gypsum and Anhydrite Inclusions.			
	678	680	2	Dolomite, Brown, IVF-FA B_{trace}			
	680	685	5	Dolomite, Brown, IVFAB_1C_{trace}, Stylolitic, Calcite-Healed Fractures			
	685	686	1	Dolomite, As above, with B_{trace}			
	686	692	6	Dolomite, Brown, IVFA, Argillaceous, Calcite-Healed Fractures			
	692	699	7	Dolomite, Brown, III/IVFAB_1C_2			
	699	701	2	Dolomite, Brown III/IVFA B_{trace}			
	701	702	1	Dolomite, Brown III/IVFAB_1C_1			

SYMBOLS: C-CLAY OR SHALE (SAND 0-5%). 1-CLAY OR SHALE WITH SAND STREAKS (SAND 5-25%). 2-CLAY OR SHALE AND SAND (SAND 25-60%). 3-SAND WITH SHALE STREAKS (SAND 60-90%). S-SAND (90-100%).
NOTE: SHOW FLUID CONTENT AS IN STANDARD LEGEND.

PD 4-B 8.50

WEEK ENDING 6-28-58

CORE FROM 11610 TO 11652

CORES EXAMINED BY Bremer, Oestrich

SHELL OIL COMPANY

CORE RECORD

AREA OR FIELD Carbon Co., Utah

COMPANY Shell Oil Company

LEASE AND WELL NO. North Springs #1

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL—GAS / CORE OR DITCH
7	11610	11652	40.5'				
	11610	610.5	.5	Dolomite, Brown, IVF-MA B_2C_1			11610-
	610.5	611	.5	Dolomite, As above with B_{trace}			11634-
	611	614	3	Dolomite, As above with B_1C_1			Gas Bubbles
	614	615	1	Dolomite, As above with B_2C_2			on surface
	615	617	2	Dolomite, As above with B_1 C_{trace}			of core
	617	618	1	Dolomite, As above with B_1C_2			Black Residue
	618	623	5	Dolomite, As above with B_{trace} C_{trace}			in some of
	623	627	4	Dolomite, Gray, IVFA $B_1C_2D_1$			Vugs.
	627	634	7	Dolomite, Brown-Gray, IVFA B_{trace} C_{trace}			
	634	635	1	Dolomite, Brown, IVFA with Vertical Fractures			
	635	637	2	Limestone, Brown, IVFA with Vertical Fractures			
	637	639	2	Dolomite, Black, IVFA, Very Argillaceous with Vertical Fractures			
	639	646	7	Dolomite, Dark Gray, IVFA B_{trace}, Brecciated, Argillaceous with Vertical Fractures			
	646	650	4	Dolomite, Gray, III/IVFA			

SYMBOLS: C-CLAY OR SHALE (SAND 0-5%). 1-CLAY OR SHALE WITH SAND STREAKS (SAND 5-25%). 2-CLAY OR SHALE AND SAND (SAND 25-60%). 3-SAND WITH SHALE STREAKS (SAND 60-90%). S-SAND (90-100%).

NOTE: SHOW FLUID CONTENT AS IN STANDARD LEGEND

PD 4-B 8-50

SHELL OIL COMPANY

WEEK ENDING

CORE FROM 10739 TO 10761

CORES EXAMINED BY C. Bremer

CORE RECORD

AREA OR FIELD Wildcat

COMPANY Shell Oil Company

LEASE AND WELL NO. North Springs Unit 1

NO.	FROM	TO	RECOV-ERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIOI OIL—GAS CORE OR DI
6	10739	10761	18				None
	10739	10742	3	Shale black, carbonaceous			
	10742	10745	3	Shale as above, calcareous			
	10745	10746.5	1.5	Shale, black, carbonaceous soft			
	10746.5	10753	6.5	Shale, black, calcareous, carbonaceous.			
	10753	10755	2	Limestone, brown, IVFA, very argillaceous			
	10755	10757	2	Shale, black, calcareous, carbonaceous (minor vertical fractures in shale)			

SYMBOLS: C-CLAY OR SHALE (SAND 0-5%). 1-CLAY OR SHALE WITH SAND STREAKS (SAND 5-25%). 2-CLAY OR SHALE AND SAND (SAND 25-60%). 3-SAND WITH SHALE STREAKS (SAND 60-90%). S-SAND (90-100%).

NOTE: SHOW FLUID CONTENT AS IN STANDARD LEGEND.

Budget Bureau No. 42-R356.5.
Approval expires 12-31-60.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER SL 065853
UNIT North Springs

LESSEE'S MONTHLY REPORT OF OPERATIONS

11/14 2/11

State Utah County Carbon Field North Springs Unit

The following is a correct report of operations and production (including drilling and producing wells) for the month of December, 19 58,

Agent's address 705 Municipal Drive
Farmington, New Mexico

Company Shell Oil Company

Signed Original signed by B. W. SHEPARD

Phone DAvis 5-8811

Agent's title Exploitation Engineer

Sec. and ¼ of ¼	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
27 SE SW	15S	9E	1	-	-	-	-	-	-	Suspended

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

16—25766-8 U. S. GOVERNMENT PRINTING OFFICE

Budget Bureau No. 42-R356.5.
Approval expires 12-31-60.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER SL 065853
UNIT North Springs

N-N
3-10

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Carbon *Field* North Springs Unit

The following is a correct report of operations and production (including drilling and producing wells) for the month of January, 1959,

Agent's address 705 West Municipal Drive *Company* Shell Oil Company

Farmington, New Mexico *Signed* Original signed by B. W. SHEPARD

Phone DAvis 5-8811 *Agent's title* Exploitation Engineer

Sec. and ¼ of ¼	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
27 SE SW	15S	9E	1	-	-	-	-	-	-	Suspended

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

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DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER SL 065853
UNIT North Springs

LESSEE'S MONTHLY REPORT OF OPERATIONS

N/H
3/30

State Utah County Carbon Field North Springs Unit

The following is a correct report of operations and production (including drilling and producing wells) for the month of February, 19 59,

Agent's address 705 West Municipal Drive *Company* Shell Oil Company

Farmington, New Mexico *Signed* Original signed by B. W. SHEPARD

Phone DAvis 5-8811 *Agent's title* Exploitation Engineer

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
27 SE SW	15S	9E	1	-	-	-	-	-	-	Suspended

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER SL 065853
UNIT North Springs

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Carbon *Field* North Springs Unit

The following is a correct report of operations and production (including drilling and producing wells) for the month of March, *19* 59,

Agent's address 705 West Municipal Drive, Farmington, New Mexico *Company* Shell Oil Company

Signed Original signed by B. W. SHEPARD

Phone DAvis 5-8811 *Agent's title* Exploitation Engineer

Sec. and ¼ of ¼	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
27 SE SW	15S	9E	1	-	-	-	--	--	-	Suspended

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER SL 065853
UNIT North Springs

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Carbon *Field* North Springs Unit

The following is a correct report of operations and production (including drilling and producing wells) for the month of April, 1959,

Agent's address 705 West Municipal Drive
Farmington, New Mexico
Phone DAvis 5-8811

Company Shell Oil Company
Signed Original signed by B. W. SHEPARD
Agent's title Exploitation Engineer

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
27 SE SW	15S	9E	1	-	-	-	---	---	-	Suspended

APR 21 1959

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER SL 065853
UNIT North Springs

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Carbon *Field* North Springs Unit

The following is a correct report of operations and production (including drilling and producing wells) for the month of May, 1959,

Agent's address 705 West Municipal Drive *Company* Shell Oil Company
Farmington, New Mexico *Signed* Original signed by R. S. Mac ALISTER, JR.
Phone DAvis 5-8811 *Agent's title* Div. Exploitation Engineer

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
27 SE SW	15S	9E	1	-	-	-	---	-	-	Suspended

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

16—25766-8 U. S. GOVERNMENT PRINTING OFFICE

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Approval expires 12-31-60.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER SL 065853
UNIT North Springs

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Carbon Field North Springs Unit

The following is a correct report of operations and production (including drilling and producing wells) for the month of June, 1959,

Agent's address 705 West Municipal Drive
Farmington, New Mexico

Company Shell Oil Company

Signed (Original signed by) R. S. Mac ALISTER, JR.

Phone DAvis 5-8811

Agent's title Div. Exploitation Engineer

Sec. and ¼ of ¼	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
27 SE SW	15S	9E	1	-	-	-	-	-	-	Suspended

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

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Approval expires 12-31-60.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER SL 0-65853
UNIT North Springs

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Carbon *Field* North Springs Unit

The following is a correct report of operations and production (including drilling and producing wells) for the month of July, 19 59,

Agent's address 705 West Municipal Drive *Company* Shell Oil Company
Farmington, New Mexico *Signed* Original signed by B. W. SHILLARD
Phone DAvis 5-8811 *Agent's title* ~~Division~~ Exploitation Engineer

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
27 SE SW	15S	9E	1	-	-	-	-	-	-	Suspended

NOTE.—There were no runs or sales of oil; no M cu. ft. of gas sold; no runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

16—25766-8 U. S. GOVERNMENT PRINTING OFFICE

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER SL 065853
UNIT North Springs

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Carbon *Field* North Springs Unit

The following is a correct report of operations and production (including drilling and producing wells) for the month of August, 1959,

Agent's address P.O. Box 158
Farmington, New Mexico

Company Shell Oil Company

Signed Original signed by B. W. SHEPARD

Phone DAvis 5-8811

Agent's title Exploitation Engineer

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
27 SE SW	15S	9E	1	-	-	-	-	-	-	Suspended

NOTE.—There were no runs or sales of oil; no M cu. ft. of gas sold; no runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

16—25766-8 U. S. GOVERNMENT PRINTING OFFICE

Budget Bureau No. 42-R356.5.
Approval expires 12-31-60.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER SL 065853
UNIT North Springs

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Carbon *Field* North Springs Unit

The following is a correct report of operations and production (including drilling and producing wells) for the month of September, 1959,

Agent's address P. O. Box 158 *Company* Shell Oil Company

Farmington, New Mexico *Signed* Original signed by R. S. MCALISTER, JR.

Phone DAvis 5-8811 *Agent's title* DIV. Exploitation Engineer

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
27 SE SW	15S	9E	1	-	-	-	-	-	-	Suspended

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

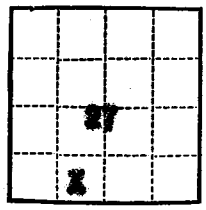
NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

16—25766-8 U. S. GOVERNMENT PRINTING OFFICE

Form 9-331a
(Feb. 1951)

Budget Bureau No. 42-R358.4.
Approval expires 12-31-60.



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office _____
Lease No. SL 065853
Unit North Springs

N-H
12-1-58

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	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		Subsequent Report of Suspended Operations	X

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

October 31, 1958

North Springs Unit
Well No. #1 is located 660 ft. from {N/S} line and 1980 ft. from {E/W} line of sec. 27

SW 27 (¼ Sec. and Sec. No.) | 15S (Twp.) | 9E (Range) | SLBM (Meridian)

Wildcat (Field) | Carbon (County or Subdivision) | Utah (State or Territory)

Kelly Bushing
The elevation of the ~~derrick floor~~ above sea level is 6143.5 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)

Suspended Work:

1. Placed plugs as follows: 40 sacks cement at 11,600-11,650'
   70 sacks cement at 10,900-10,705'
2. Installed 5000# test surface flange and gate at surface
3. Cleaned out to 10,727'. Released rig and suspend operations 7-27-58.

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

Company Shell Oil Company

Address 705 West Municipal Drive

Farmington, New Mexico

Original signed by
By B. W. SHEPARD

B. W. Shepard
Title Exploitation Engineer

GPO 9 18 507

W

Budget Bureau No. 42-R356.5.
Approval expires 12-31-60.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER SL 065853
UNIT North Springs

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Carbon *Field* North Springs Unit

The following is a correct report of operations and production (including drilling and producing wells) for the month of October, *19*59,

Agent's address P. O. Box 158
Farmington, New Mexico

Company Shell Oil Company

Signed Original signed by B. W. SHEPARD

Phone DAvis 5-8811

Agent's title Exploitation Engineer

Sec. and ¼ of ¼	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
27 SE SW	15S	9E	1	-	-	-	-	-	-	Suspended

NOTE.—There were no runs or sales of oil; no M cu. ft. of gas sold; no runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

16—25766-8 U. S. GOVERNMENT PRINTING OFFICE

Budget Bureau No. 42-R356.5.
Approval expires 12-31-60.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER SL 065853
UNIT North Springs

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Carbon *Field* North Springs Unit

The following is a correct report of operations and production (including drilling and producing wells) for the month of November, *1959*,

Agent's address Post Office Box 158 *Company* Shell Oil Company

Farmington, New Mexico *Signed* Original signed by B. W. SHEPARD

Phone Davis 5-8811 *Agent's title* Exploitation Engineer

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
27 SE SW	15S	9E	1	-	-	-	-	-	-	Suspended

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

16—25766-8 U. S. GOVERNMENT PRINTING OFFICE

Budget Bureau No. 42-R356.5.
Approval expires 12-31-60.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER SL 065853
UNIT North Springs

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Carbon *Field* North Springs Unit

The following is a correct report of operations and production (including drilling and producing wells) for the month of December, *19* 59,

Agent's address Post Office Box 158 *Company* Shell Oil Company

Farmington, New Mexico *Signed* Original S.S.
R. S. Mac ALISTER, JR.

Phone DAvis 5-8811 *Agent's title* Div. Exploitation Engineer

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
27 SE SW	15S	9E	1	-	-	-	-	-	-	Suspended

NOTE.—There were no runs or sales of oil; no M cu. ft. of gas sold; runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

16—25766-8 U. S. GOVERNMENT PRINTING OFFICE

Budget Bureau No. 42-R356.5.
Approval expires 12-31-60.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER SL 065853
UNIT North Springs

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Carbon Field North Springs Unit

The following is a correct report of operations and production (including drilling and producing wells) for the month of January, 19 60,

Agent's address Post Office Box 158
Farmington, New Mexico

Company Shell Oil Company

Signed Original signed by B. W. SHEPARD

Phone DAvis 5-8811

Agent's title Exploitation Engineer

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
27 SE SW	15S	9E	1	-	-	-	-	-	-	Suspended

NOTE.—There were no runs or sales of oil; no M cu. ft. of gas sold; no runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

16—25766-8 U. S. GOVERNMENT PRINTING OFFICE

Budget Bureau No. 42-R356.5.
Approval expires 12-31-60.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER SL 065853
UNIT North Springs

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Carbon *Field* North Springs Unit

The following is a correct report of operations and production (including drilling and producing wells) for the month of February, 1960,

Agent's address Post Office Box 158
Farmington, New Mexico

Company Shell Oil Company

Signed Original signed by B. W. SHEPARD

Phone DAvis 5-3811

Agent's title [redacted], Exploitation Engineer

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
27 SE SW	15S	9E	1	-	-	-	-	-	-	Suspended

NOTE.—There were no runs or sales of oil; no M cu. ft. of gas sold; no runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

16—25766-8 U. S. GOVERNMENT PRINTING OFFICE

Budget Bureau No. 42-R356.5.
Approval expires 12-31-60.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER SL 065853
UNIT North Springs

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Carbon *Field* North Springs Unit

The following is a correct report of operations and production (including drilling and producing wells) for the month of March, 19 60,

Agent's address Post Office Box 158 *Company* Shell Oil Company

Farmington, New Mexico *Signed* Original signed by B. W. SHEPARD

Phone Davis 5-8811 *Agent's title* Exploitation Engineer

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
27 SE SW	15S	9E	1	-	-	-	-	-	-	Abandoned 3-24-60

NOTE.—There were no runs or sales of oil; no M cu. ft. of gas sold; no runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

16—25766-8 U. S. GOVERNMENT PRINTING OFFICE

Form 9-331a
(Feb. 1951)

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R358.4.
Approval expires 12-31-60.

Land Office Salt Lake City, Utah
Lease No. SL 065653
Unit North Springs

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	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	X		

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

March 8, 19 60

North Springs Unit
Well No. 1 is located 660 ft. from {N/S} line and 1980 ft. from {E/W} line of sec. 27

SE SW 27 (¼ Sec. and Sec. No.) | 15S (Twp.) | 9E (Range) | SLBM (Meridian)

Wildcat (Field) | Carbon (County or Subdivision) | Utah (State or Territory)

The elevation of the ~~derrick floor~~ kelly bushing above sea level is 6143.5 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)

Status:

1. Total Depth - 12737'
2. Plugged Back - a. 40 sacks cement (11650-11800)
   b. 40 sacks cement (10705-10900)
   c. Cleaned out to 10727'
3. Casing - a. 13-3/8" @ 910'.
   b. 7" @ 10,737'
   c. Casing has not been perforated and contains heavily mud laden fluid from 10727 to surface.
4. Production tested interval 11484-11702 (6-28-58), final stabilized gas rate (CO_2) was 1.6 MCF/D - noncommercial. Well suspended 7-27-58.

Proposed Abandonment Work:

1. Remove surface flange and gate. 2. Leave 7" casing cemented at 10,737'.
3. Install a 10 sack cement plug at surface, install marker and abandon.

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

Company Shell Oil Company

Address P. O. Box 158

Farmington, New Mexico

By Original signed by B. W. SHEPARD
B. W. Shepard

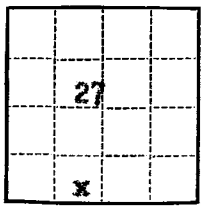
Title Exploitation Engineer

Note: Verbal acceptance of plugging program was given by D. F. Russell, U.S.G.S. to B. Kazarian.

GPO 862040

Form 9-331a
(Feb. 1951)

Budget Bureau No. 42-R358.4.
Approval expires 12-31-60.



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake City, Utah
Lease No. SL 065853
Unit North Springs

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	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	X
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)

April 1, 1960

North Springs Unit
Well No. 1 is located 660 ft. from {N/S} line and 1980 ft. from {E/W} line of sec. 27

SE SW 27 (¼ Sec. and Sec. No.) | 15S (Twp.) | 9E (Range) | SLBM (Meridian)

Wildcat (Field) | Carbon (County or Subdivision) | Utah (State or Territory)

The elevation of the ~~derrick floor~~ Kelly Bushing above sea level is 6113.5 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)

Abandonment Work

1. Removed surface flange and gate.
2. Installed a 10 sack cement plug at surface, installed marker and abandoned 3-22-60.

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

Company Shell Oil Company

Address Post Office Box 158

Farmington, New Mexico

By H. W. Shepard

Title Exploitation Engineer

GPO 862040

Copy file

(May 1963)

(Other instructions on reverse side)

Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK: Re-enter and complete
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' From S Line, 1980' from W Line, Sec. 27
At proposed prod. zone

5. LEASE DESIGNATION AND SERIAL NO.
S L - 065853

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal-North Springs

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 27-T. 15 S., R. 9 E. SLBM

12. COUNTY OR PARISH: Carbon
13. STATE: Utah

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

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	**19. PROPOSED DEPTH**	**20. ROTARY OR CABLE TOOLS**
	10,727 COTD	Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
6143.5 Kelly Bushing

22. APPROX. DATE WORK WILL START*

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48	910 '	865 SX
12-1/4" & 9"	7"	32-29-26	10,737'	300 SX

This well was plugged back to 10,727' July 27, 1958 and a 10 sack cement plug was placed at surface and marker installed March 3, 1960.

It is now proposed to:

1. Move in rotary tools, drill out surface plug and clean out to 10,727'.
2. Perforate 10,709' to 10,713' with 4 hole per foot.
3. Run tubing and packer.
4. Acidize with 250 gallons of mud acid.
5. Frac with 200 bbls diesel, 100 bbls liquid CO_2 and 10,000# of sand.
6. Flow back and test.

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 B. H. Means TITLE Completion Engineer DATE July 21, 1964

(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

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.: U-058351

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: Pacific Natural Gas Exploration Company

8. FARM OR LEASE NAME: North Springs Unit

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

9. WELL NO.: 1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
660' F.S.L. & 1980' F.W.L.
C SE SW Sec. 27, T15S, R9E, SLBM
Carbon County, Utah

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 27 T15S, R9E, SLBM

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.):

12. COUNTY OR PARISH: Carbon

13. STATE: 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	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☒	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			
(Other)				(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.) *

The production declined whereby the well would not produce paying quantities of gas.
P.B.T.D. 10,727'. Perforated w/2 holes/ft. 10,710.5-10,714.5 and 10,666.5-10,671.5'.
7" casing set @ 10,737'. Cemented w/300 sx. Est. fill-up behind 7" 9575'.
920' of 13-3/8" set and cement circulated.

Proposed plugging program:

1. Place 200' plug from 10,727 to 10,527'.
2. Free point 7" to determine amount of casing recoverable.
3. If less than 5000' of pipe is free, shoot 4 1/2" holes @ 6000' and squeeze 25 sacks of cement behind 7" pipe, or if over 5000' of pipe is free, but less than 6000', shoot 4 1/2" holes at 7250' and squeeze as above.
4. Pull 7" casing. Place 100' plug 50' in and 50' out of cut off 7".
5. Fill open hole between 7" and 13-3/8" casing w/heavy viscous mud.
6. Place 100' plug 50' in and 50' below 13-3/8" shoe set @ 910'.
7. Place 5 sack plug @ surface w/dry hole marker.

Estimate work to begin January 24, 1966.

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

SIGNED E. E. Lyman TITLE Drilling Superintendent DATE 1/10/66

(This space for Federal or State office use)

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

APPROVED BY UTAH OIL AND GAS CONSERVATION COMMISSION
DATE: 1-20-66 by Paul W. Burchell
CHIEF PETROLEUM ENGINEER

*See Instructions on Reverse Side

July 22, 1964

Pacific Natural Gas Exploration Company
P. O. Box 2436
Salt Lake City, Utah 84110

Attention: Mr. B. H. Means, Completion Engineer

Re: Notice of Intention to Rework Well No. FEDERAL-NORTH SPRINGS UNIT #1, 660' FSL & 1980' FWL, C SE SW of Section 27, T. 15 S., R. 9 E., SLBM, Carbon County, Utah.

Gentlemen:

Insofar as this office is concerned, approval to rework the above mentioned well is hereby granted.

As soon as you have determined that it will be necessary to plug and abandon the 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

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 to completing this form will be greatly appreciated.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT
EXECUTIVE DIRECTOR

CBF:kgw

cc: Rodney Smith, Dist. Eng., U. S. Geological Survey, Salt Lake City, Utah
H. L. Coonts, Pet. Eng., Oil & Gas Conservation Commission, Moab, Utah

Copy SLH

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-R356.5.

AND OFFICE Salt Lake City
LEASE NUMBER U-058351
UNIT North Springs

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Carbon *Field* Undesignated

The following is a correct report of operations and production (including drilling and producing wells) for the month of December, 1964, Pacific Natural Gas

Agent's address P. O. Box 2436 *Company* Exploration Company

Salt Lake City, Utah 84110 *Signed* B. H. Means B. H. Means

Phone 322-2583 *Agent's title* Completion Engineer

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE SW Sec 27	15S	9E	1							Shut-in

NOTE.—There were no runs or sales of oil; no M cu. ft. of gas sold; no runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

16—25766-9 U. S. GOVERNMENT PRINTING OFFICE

Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City
LEASE NUMBER U-058351
UNIT North Springs

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah *County* Carbon *Field* Undesignated-North Springs

The following is a correct report of operations and production (including drilling and producing wells) for the month of January - June, *19* 65,

Agent's address P. O. Box 2436 *Company* Pacific Natural Gas Exploration Company

Salt Lake City, Utah 84110 *Signed* B. H. Means

Phone 322-2583 *Agent's title* Completion Engineer

Sec. and ¼ of ¼	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE SW 27	15S	9E	1							Shut-in

NOTE.—There were no runs or sales of oil; no M cu. ft. of gas sold; no runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1950)

16—25766-9 U. S. GOVERNMENT PRINTING OFFICE

February 18, 1965

Pacific Natural Gas Exploration Company
P.O. Box 2436
Salt Lake City, Utah

Attention: Mr. B. H. Means, Completion Engineer

Re: Well No. Federal-North Springs Unit #1, 660' FSL & 1980' FWL, Sec. 27, T. 15 S., R. 9 E., Carbon County, Utah.

Gentlemen:

This letter is to advise you that the "Well Completion or Recompletion Log", for the above mentioned reworked well is due and has not been filed with this Commission as required by our rules and regulations.

Please complete the enclosed Forms OGCC-3, "Well Completion or Recompletion Report and Log", in duplicate and forward them to this office as soon as possible.

Thank you for your cooperation in this request.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

KATHY G. WARNER
RECORDS CLERK

KGW;sch

Enclosure: Forms OGCC-3

PACIFIC NATURAL GAS EXPLORATION COMPANY

366 SOUTH FIFTH EAST STREET

SALT LAKE CITY, UTAH [redacted]

P. O. BOX 2436 84110

March 15, 1965

Mr. Harvey Coonts
Utah Oil and Gas Conservation Commission
348 East South Temple
Suite 301
Salt Lake City, Utah

Dear Mr. Coonts:

Attached please find a gas analysis and pressure and test data for our North Springs Unit No. 1 Well. If you require additional information on this well, please let me know.

Yours truly,

B. H. Means

B. H. Means
Completion Engineer

BHM:pn
Enclosure

FIELD DATA SHEET

Company: Pac. Nat. Gas Lease: North Springs Unit Well No. 1

DATE Time of Reading	ELAP. TIME Hrs.	WELLHEAD WORKING PRESSURE Tbg. Psig	Csg. Psig	Temp. F	METER OR PROVER Pressure Psig	Diff.	Temp. F	Orifice	REMARKS (Include liquid production data: Type – API Gravity – Amount)
12/7/64									
9:00 AM		2384	2401	Fixing alcohol injector					fill heater, repair
4:00 PM		—	2409	liquid line, hookup unit					& fire up unit
6:00 PM		Heating up unit & pressuring csg. on alcohol inj. blew out							
7:00 PM		2092	2200		530	32	81		Got well flowing
9:30		1768	1878		505	25	100		Left to flow overnite -- Checked &
12/8/64									OK @ 11:00 PM
Well had SI @ 11:35 PM -- B.P. valve malfunction & hi-lo valve SI for high press.									
Rigged 7/16" orifice on flowline to hold back press. Opened up -- flowed short									
time & tbg. started dropping badly. Cut nearly off & got rest of alcohol pumped.									
Got more alcohol & tried again.									
1:15		2052	2107						Well SI -- wait on alcohol
2:00		2094	2150						" " - Reopened to flow
2:15									Tbg. dropping badly -- SI well
		& blew to atmosphere 10 min.							
2:30		1875	1950						Pressures after blowing -- Opened
2:50		1860	1936		320	24	104	1-1/2"	1250 MCFPD well
3:05		1817	1889		325	25	94	"	opened choke -
3:30		1769	1829		310	24.5	100	"	1759 tbg. 1715 MCFPD
4:40		1522	1621		355	28	104	"	Opened choke more
5:10		1394	1516		385	30	100	"	" " "
5:45		1288	1449		380	30	98	"	" " "
6:15		1299	1385		410	36	100	"	Left well
9:15		Well off, production line froze @ 6:45 pm. Thawed out & added alcohol.							
10:00									Start well back up
10:30		1250-1320	1604		510	33	102	1-1/2	Acts like slugs of liquid in tbg.
11:00		1350	1489		470	37	104	1-1/2"	Running OK
12/9/64		Well went off @ 1:00 AM [illegible] line froze. Thawed & [illegible] alcohol & try							
		to put well back on							
9:15 AM		1857	1919						Open well to flow.
9:50		1220-1280	1600		650	51	80		Tbg fluctuating
7:00		551	1671		435	35	101		Freezing off in tbg. SI
		well & blew to atmos. 30 min. Hvy. hydrates at first. Seemed to							
		be cleaning up but csg. press. would not drop, & flow gradually							
		diminished. SI & rigged to pump alcohol down tbg.							
1:00 PM		1819	1885		15 gal. in tbg. - put csg. press. on tbg.				
1:30		1847	1904						
1:45		1745	1881		330	26	97	1-1/2"	Reopened well
2:00		1681	1825		315	24	102	"	
2:15		1612	1785		290	23	97	"	
[illegible]		1612	1751		270	21	104	"	
[illegible]		1614	1710		270	21	93	"	
3:00		1606	1680		285	22	104	"	
[illegible]		1553	1608		300	22.5	98	"	
5:15		1386	1499		260	21	100	"	Increased rate

PAGE ____ OF ____ DATA BY ____________

POOR COPY

FIELD DATA SHEET

Company Pacific Nat. Gas Exploration Lease North Springs Unit Well No. 1

DATE Time of Reading	ELAP. TIME Hrs.	WELLHEAD WORKING PRESSURE Tbg. Psig	Csg. Psig	Temp. F	METER OR PROVER Pressure Psig	Diff.	Temp. F	Orifice	REMARKS (Include liquid production data: Type – API Gravity – Amount)
12/9/64									
5:30P	0	1326	1396		350	27.5	104	1-1/2"	
6:00	1/2	1261	1324		350	27.5	105		~~Prod. from prev. rpt~~ just gage!
6:15					~~345~~	~~345~~	~~99~~		Opened choke more
6:30	1	1188	1251		385	30.5	99		~~SI for road~~
12/10/64		523	610		210	16.5	92°	1-1/2"	7:00 AM running OK
7:30 AM	18	524	612		210	16.5	104		865 MCFPD
7:45	--	Changed from 9/16" to 5/16" orifice in prover to raise separator press.							
8:00	18½	512	609		320	8	99		951 MCFPD
10:30	21	486	571		400	7.7	100		916 MCF/D
11:00	21½	480	566		400	7.7	92		
11:30	22	474	561		400	7.7	104		
12:00	22½	475	558		395	7.7	94		
12:30	23	472	555		390	7.7	106		
1:00 PM	23½	472	551		390	7.7	100		
1:30	24	468	547		380	7.5	91		458 Tubing pressure
2:00		457	546		378	7.5	104		787 MCFPD
2:30	25	453	545		380	7.5	97		792 "
3:00	25½	453	542		370	7.5	100		Heater firing – reduces meter press.
5:00	27½	466	549		330	6.5	101		Opened choke some. Appeared to have partially closed.
12/11/64									
7:15 AM	41½	410	498		340	6.5	96°	1-1/2	690 MCFPD
7:45	42	416	496		345	6.5	105	"	695 MCFPD
8:00	42½	412	495		340	6.5	104	"	690 MCFPD
11:00	45½	399	483		330	6.3	116	"	
11:30	46	390	481		335	6.5	103	"	685 MCFPD
12:00	46½	390	476		340	6.5	95	"	
12:30P	47	385	472		335	6.3	90	"	
1:00	47½	380	465		335	6.3	96	"	
1:30	48	379	461		325	6.3	99	"	
5:00	51½	372	450		310	5.8	100	"	
5:30	52	366	447		320	6.0	100	"	
6:00	52½	365	447		310	5.8	86	"	
12/12/64									
7:15 AM		307	382		290	5.3	100	1½"	555 MCFPD
7:30		306	381		290	5.3	96	"	
7:45		305+	380+		296	5.3	94	"	
9:45		305	379		288	5.3	100	"	
10:00		—	—		—	—	—		Shut well in & rigged down equipment. Drained heater & installed skipping stop in motor & recorder on tubing.
11:20		510	525		Well blowing gas		Pressure		

PAGE 2 OF 2 DATA BY D. L. Means & Dick Bates

FIELD DATA SHEET

Company [illegible] Expl. Co. Lease [illegible] Unit Well No. 1

7" casing – Packer on 2⅞" tubing at 10,586' – [illegible] set at 10,414 [illegible] plugged.
Perfs [illegible] 10,410 [illegible] 10,414.5 [illegible]

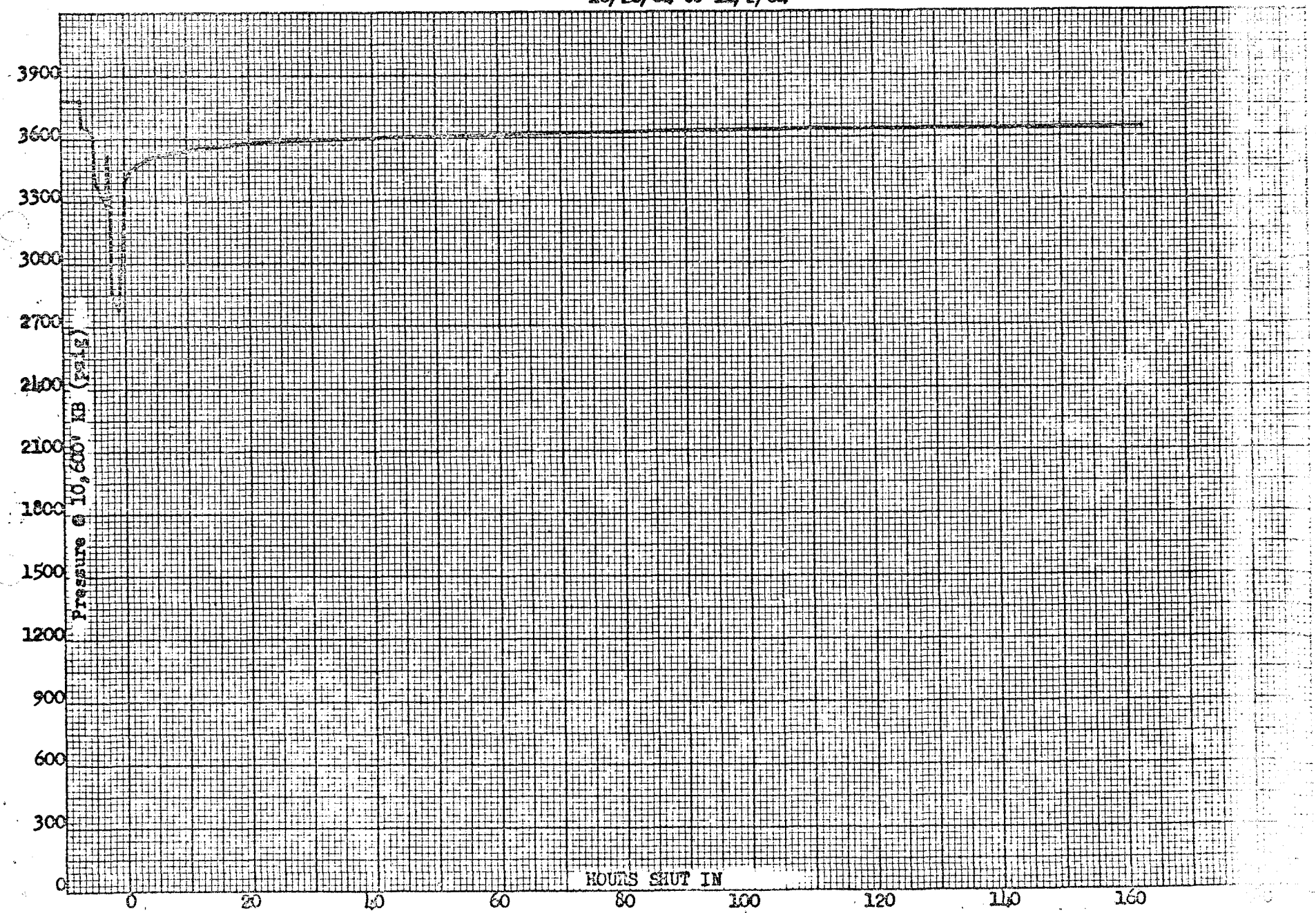
DATE	ELAP. TIME	WELLHEAD WORKING PRESSURE			METER OR PROVER				REMARKS
Time of Reading	Hrs.	Tbg. Psig	Csg. Psig	Temp. F	Pressure Psig	Diff.	Temp. F	Orifice	(Include liquid production data: Type – API Gravity – Amount)
[illegible]									
[illegible]									
10:30 AM	[illegible]	2902	–	–	–	–	–	–	SI [illegible]
[illegible]	[illegible]	[illegible]			1180	[illegible]		1.1	[illegible]
		[illegible]							
2:00 PM	0	Start	1st		flow rate				1¼" Orifice [illegible] Coef. = 29.72
2:15	¼	2659			780	6"	80°	1¼	
2:30	½	2680			770	6"	76		
3:00	1	2688			750	6"	[illegible]	"	
[illegible]	1½	[illegible]			725	5	[illegible]	"	
[illegible]	2	[illegible]			710	7.5	85	"	
[illegible]	.	Start 2nd			flow rate			"	
4:30	½	2432			670	22.5	86°	"	
5:00	1	2392			715	22.5	88	"	
[illegible]	1½	2311			[illegible]	21.0	[illegible]	"	
[illegible]	2	2304			650	21	[illegible]	"	[illegible] SI well
		[illegible]			[illegible]				SI [illegible]
		[illegible]			[illegible]				[illegible] 3rd rate
6:30 PM	0	Start 3rd rate							
7:00	½	1659			110	50	92	1¼	
7:30	1	1753			135	45	82	1¼	
		[illegible] 1¼ [illegible]							[illegible]
8:25									Well [illegible] flowing [illegible]
									[illegible] 950# [illegible]
									[illegible]
									[illegible] had shut off flow.
									Left well SI.
[illegible]									
[illegible]		1050# – Wellhead gauge [illegible] 50# high [illegible]							[illegible]
		pressure [illegible] down to 950# [illegible]							[illegible] SI [illegible]
[illegible]		950 – Checked wellhead pressure [illegible]							[illegible]
				rest for time being [illegible]					[illegible]
				Pacific will [illegible] pressure					[illegible] to have [illegible] pulled.

PAGE 1 OF 1 DATA BY [illegible]

POOR COPY

PACIFIC NATURAL GAS EXPLORATION COMPANY
North Springs #1, Emery County, Utah

PRESSURE DRAWDOWN & BUILDUP SURVEY
10/26/64 to 11/2/64



PMB HW

On 3/12/65 called Rod Eddleston re possibility of reservoir liquids being of a retrograde condensate nature. He stated he felt the liquids were dry gas only and that the reservoir was small. He is sending in an analysis and test data.

H.L.C.

March 4, 1965

Pacific Natural Gas Exploration Company
P. O. Box 2436
Salt Lake City, Utah 84110

Re: Well No. North Springs Unit #1
Sec. 27, T. 15 S., R. 9 E.,
Carbon County, Utah

Gentlemen:

Upon receiving your "Well Completion or Recompletion Report and Log" for the above mentioned well, it was noted that a Microlog, ES-Induction and Gamma Ray-Neutron Log were run. It would be appreciated if we could receive copies of said logs.

It would also be appreciated if you would complete the enclosed Form OGCC-8-X, and return to this office as soon as possible.

Thank you.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

KATHY G. WARNER
RECORDS CLERK

kgw

Enclosure - Forms

Branch of Oil and Gas Operations
8416 Federal Building
Salt Lake City, Utah, 84111

January 21, 1966

Pacific Natural Gas Exploration Co.
P. O. Box 2436
Salt Lake City, Utah

Attention: R. E. Lomax, Drilling Supt.

Gentlemen:

Enclosed is the approved notice of intention to abandon the North Springs No. 1, SE¼SW¼ sec. 27, T. 15 S., R. 9 E., Carbon County, Utah, on lease Utah 058351.

We have approved the attached plugging program conditioned upon the following:

1. Notify me or George Brown (phone numbers attached) of the free point and/or amount of pipe that can be recovered so that the plugging program can be be reviewed and revised accordingly.

2. An additional 25-sack cement plug may be required at approximately 3830-3920' to cover Buckhorn (/) sand if pipe recovery is below that point.

If you have any questions on this procedure, please contact us.

Sincerely yours,

Rodney A. Smith,
District Engineer

Enclosures

cc: Casper
Utah O&GCon. Com. ✓

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (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 ☐ GAS WELL ☒ OTHER

5. LEASE DESIGNATION AND SERIAL NO.: U-058351

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: Pacific Natural Gas Exploration Company

8. FARM OR LEASE NAME: North Springs Unit

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

9. WELL NO.: #1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface 660' F.S.L. & 1980' F.W.L.
C SE SW Sec. 27, T15S, R9E, SLBM
Carbon County, Utah

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 27, T15S, R9E, SLBM

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6130' Gr.

12. COUNTY OR PARISH: Carbon

13. STATE: 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	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	X
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			
(Other)				(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.) *

The North Springs #1 Well was plugged as follows:

1. A 200' plug (30 sacks w/2% Gel) was placed from 10,527' to 10,727'.
2. Free point was run indicating 7" pipe to be free at 2,478', four 1/2" holes were shot @ 6,400', and a Baker retainer set at 6,321'. The four holes were squeezed w/25 sacks containing 2% Gel. 15 sacks were squeezed outside of casing when pressure built up to 4400#, and the remaining 10 sacks were left inside 7" pipe.
3. 7" cut @ 2,470' and recovered.
4. 100' plug set at 2,420 to 2,520, 22 sacks w/2% Gel.
5. 100' plug set @ 860' to 960', 43 sacks w/2% Gel.
6. 10 sacks w/surface marker
7. Work completed and marker installed 1-28-66.

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

SIGNED E. G. [signature] TITLE Drilling Superintendent DATE 1/28/66

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

SEC 27 TWP 15S RGE 9E
UTAH CARBON 660FSL 1980FWL SEC C SE SW
STATE---COUNTY-------FOOTAGE----------SPOT---------
SHELL OIL WF WF
OPERATOR----------WELL CLASS INIT--FIN-
1 NO SPRINGS UNIT
WELL NO.-----LEASE NAME----------
6143KB WILDCAT
OPER ELEV----------FIELD/POOL/AREA----
API 43-007-10791-0000
----------LEASE NO.-----PERMIT OR WELL I.D. NO.--
01/20/1958 07/27/1958 ROTARY D&A-OG
SPUD DATE----COMP. DATE--TYPE TOOL---HOLE TYPE---STATUS---
CAMBRIAN MTN STATES DRLG
PROJ. DEPTH--PROJ. FORM---CONTRACTOR----------
DTD 12737 FM/TD CAMBRIAN
DRILLERS TD---LOG TD---PLUG BACK TD--OLD TD--FORM TD------
CASING/LINER DATA
CSG 13 3/8 @ 910
TYPE FORMATION LTH TOP DEPTH/SUB BSE DEPTH/SUB
(CONTINUED)

43-007-10791-0000/SHELL OIL/1 NO SPRINGS UNIT
SEC 27 TWP 15S RGE 9E

LOG	FERRON	2485	3658
LOG	TUNUNK	2720	3423
LOG	DAKOTA	3085	3058
LOG	CEDAR MT	3118	3025
LOG	BUCK TGE	3868	2275
LOG	MORRISON	3902	2241
LOG	KAYENTA	6754	-611
LOG	WINGATE	6872	-729
LOG	CHINLE	7248	-1105
LOG	SHINRUMP	7542	-1399
LOG	MOENKOPI	7575	-1432
LOG	SINBAD	8243	-2100
LOG	MOENAVE	8393	-2250
LOG	KAIBAB	8704	-2561
LOG	COCONINO	8880	-2737
LOG	HUMBUG L	10928	-4785
LOG	REDWALL	11445	-5302
LOG	OURAY LM	12565	-6422
LOG	ELBERT	12628	-6485

Coconino to 10,345'
Mon CNYN ? at 10,345

(CONTINUED)

43-007-10791-0000/SHELL OIL/1 NO SPRINGS UNIT
SEC 27 TWP 15S RGE 9E

INIT OP 2H30M IFP 1225 FFP 1670 stabilized at 1,830 mcf/da
FSIP 5635 2H FHP 5970

LOGS AND SURVEYS /INTERVAL,TYPE/

LOGS EL SRS
DRLG SHOWS OR POROSITY ZONES /INTERVAL,FORMATION,DESC

11289-11289HUMBUG L GAS show
limestone

43-007-10791-0000/SHELL OIL/1 NO SPRINGS UNIT
SEC 27 TWP 15S RGE 9E

LOG	CAMBRIAN	12675	-6532
SPL	CURTIS	4795	1348
SPL	ENTRADA	4980	1163
SPL	CARMEL	5712	431
SPL	NAVAJO	6395	-252

SUBSEA MEASUREMENTS FROM KB

CORES

CORE 01 2503-2506 REC 01.00FT FERRON
1 SANDSTONE, LIGHT, FINE, TIGHT

FORMATION TEST DATA

DST01 8844 -9000 COCONINO
REC 115 FT M
INIT OP 1H IFP FFP 110
FSIP 1640 FHP 4429
DST02 10589-10730 COCONINO
GAS TS IN 29M AT 2650 MCFD # WTR S
REC 2000 FT B
Water Cushion

(CONTINUED)

SEC 27 TWP 15S RGE 9E
UTAH CARBON 660FSL 1980FWL SEC C SE SW
STATE---COUNTY-------FOOTAGE----------SPOT--------
PACIFIC NATURAL GAS WFX WFD
OPERATOR----------WELL CLASS INIT--FIN-
1 NORTH-SPRINGS-FED
WELL NO.-----LEASE NAME----------
6143KB 6131GR 13' Bff
OPER ELEV----------FIELD/POOL/AREA----
UNNAMED
614 API 43-007-10791-0001
----------LEASE NO.-----PERMIT OR WELL I.D. NO.--
09/22/1964 09/30/1964 ROTARY RECOMPL GAS-WO
SPUD DATE----COMP. DATE--TYPE TOOL---HOLE TYPE---STATUS---
10727 COCONINO BARKER WELL SERVIC
PROJ. DEPTH--PROJ. FORM---CONTRACTOR----------
DTD 12737 PB 10727 OTD 12737 FM/TD MAN CNYN
DRILLERS TD---LOG TD---PLUG BACK TD--OLD TD--FORM TD------
CASING/LINER DATA
TUBING DATA
TBG 2 3/8 @ 10714

(CONTINUED)

FEB 12 1996

43-007-10791-0001/PACIFIC NATURAL GAS/1 NORTH-SPRINGS-FED
SEC 27 TWP 15S RGE 9E

INITIAL POTENTIAL

IPF 3440 MCFD
MAN CNYN PERF JET W/ 2-FT 10666-10715 GROSS
PERF 10666-10672 6' 10710-10715 5'
ACID 10665-10714 49'
TP 10
INTERVALS-10666 1/2-10671 1/2-10710 1/2-10714 1/2
GAUGE THRU 2 1/2 INCH LINE-HVY SPRAY OIL, TRCE WTR
GA4GE THRU 2 1/2 INCH LINE-HEAVY SPRAY OF OIL, TRACE
WT9

TYPE	FORMATION	LTH TOP	DEPTH/SUB	BSE DEPTH/SUB
LOG	FERRON	2485	3658	
LOG	DAKOTA	3085	3058	
LOG	CEDAR MT	3118	3025	
LOG	BUCKHORN	3868	2275	
LOG	MORRISON	3903	2240	
LOG	CURTIS	4795	1348	

(CONTINUED)

43-007-10791-0001/PACIFIC NATURAL GAS/1 NORTH-SPRINGS-FED
SEC 27 TWP 15S RGE 9E

LOG	ENTRADA	4980	1163	
LOG	CARMEL	5712	431	
LOG	NAVAJO	6395	-252	
LOG	KAYENTA	6754	-611	
LOG	WINGATE	6872	-729	
LOG	CHINLE	7248	-1105	
LOG	SHINRUMP	7542	-1399	
LOG	MOENKOPI	7575	-1432	
LOG	SINBAD	8243	-2100	
LOG	KAIBAB	8704	-2561	
LOG	COCONINO	8880	-2737	
LOG	MAN CNYN	10345	-4202	RAM
LOG	REDWALL	11445	-5302	

SUBSEA MEASUREMENTS FROM KB

PRODUCTION TEST DATA

PTF 865 MCFD 28/64CK
MAN CNYN PERF JET W/ 2-FT 10666-10715 GROSS
PERF 10666-10672 6' 10710-10715 5'

(CONTINUED)

43-007-10791-0001/PACIFIC NATURAL GAS/1 NORTH-SPRINGS-FED
SEC 27 TWP 15S RGE 9E

MA 10665-10714 49'
ISIP 2400
TP 523 CP 610
INTERVALS 10666 1/2-10671 1/2-10710 1/2-10714 1/2
10710 1/2-10714 1/2
PTF 690 MCFD 20/64CK
MAN CNYN PERF 10665-10714 GROSS 49'
TP 416 CP 496
BHT 104F
PTF 555 MCFD
MAN CNYN PERF 10665-10714 GROSS 49'
TP 305 CP 380

TO: PENNY - DOGM

HERE is the DATA REPORT I HAVE ON the well you were looking for.

Does it matter that the well NAME IS DIFFERENT?

IF you find something - SEND it. IF NOT - then I'll assume there was Nothing else to SEND.

Thanks - DON EDWARDS

RECEIVED
SEP 3 0 2004
DIV. OF OIL, GAS & MINING

Date: 9/30/2004
Time: 11:32 AM

PI/Dwights PLUS on CD Scout Ticket

1 NORTH-SPRINGS-FED

State: UTAH
County: CARBON
Operator: PACIFIC NATURAL GAS
API: 43007107910001 IC:
Initial Class: WFX
Target Objective:
Final Well Class: WFD
Status: GAS-WO
Field: UNNAMED
Permit: on SEP 12, 1964
First Report Date: SEP 15, 1972
Projected TD: 10727 Formation: COCONINO
Hole Direction: VERTICAL

IP Summary:	Oil	Gas	Water	Top Form
		3440 MCFD		MANNING CANYON

Location

Section, Twp., Range: 27 15 S 9 E
Spot Code: C SE SW
Footage NS EW Origin: 660 FSL 1980 FWL CONGRESS SECTION
Surface Remark:
Principal Meridian: SALT LAKE

Lat/Long: 39.4859300 / -110.8970500 TS
PBHL Footage NS EW Origin:
PBHL Section:
PBHL Remark:
ABHL Footage NS EW Origin:
ABHL Section:
ABHL Remark:

Dates and Depths

Spud: SEP 22, 1964 Spud Date Code:
TD: 12737 on
LTD:
TVD:
PlugBack Depth: 10727
Completed: SEP 30, 1964
Formation @ TD: 369MNGC Name: MANNING CANYON
Ref. Elevation: 6143 KB
KB. Elevation: 6143
Ground Elevation: 6131 GR
Contractor: BARKER WELL SERVICE
Rig Release Date: Rig #

IP # 001

Top Formation: MANNING CANYON
Base Formation: MANNING CANYON
Oil: Condst:
Gas: 3440 MCFD Water:
Interval: 10666 -10715 GROSS Method: FLOWING
Duration of Test: Hours Choke:
Oil: Gravity: GOR:

Date: 9/30/2004
Time: 11:32 AM

PI/Dwights PLUS on CD Scout Ticket

Prod Method: PERF
Pressures: FTP: 10 SITP:
FCP: SICP:

Perforations:	Interval	Cnt	Type	Shots/Ft	Top Formation	
10666 -	10672		JET	2 FT	369MNGC	MANNING CANYON
10710 -	10715		JET	2 FT	369MNGC	MANNING CANYON

Treatments: 1 Interval: 10665 - 10714
Fluid: ACID Type: A
Additive:
Prop Agent:
Formation Break Down Pressure:
Average Injection Rate:
Stages: Remarks:
Remarks on IP Test # 001 INTERVALS-10666 1/2-10671 1/2-10710 1/2-10714 1/2 GAUGE THRU 2 1/2 INCH LINE-HVY SPRAY OIL, TRCE WTR GA4GE THRU 2 1/2 INCH LINE-HEAVY SPRAY OF OIL, TRACE WT9

PT # 001

Top Formation: MANNING CANYON
Base Formation: MANNING CANYON
Oil: Condst:
Gas: 865 MCFD Water:
Interval: 10666 - 10715 GROSS Method: FLOWING
Duration of Test: Hours Choke: 28/64
Oil: Gravity: GOR:
Prod Method: PERF
Pressures: FTP: 523 SITP:
FCP: 610 SICP:
Perforations: 369MNGC MANNING CANYON
Perf Interval: 10666 - 10672 Shots/Ft: 2 FT
Type of Perfs: JET Interval Perf Count:
Perforations: 369MNGC MANNING CANYON
Perf Interval: 10710 - 10715 Shots/Ft: 2 FT
Type of Perfs: JET Interval Perf Count:

Treatments: 100 Interval: 10665 - 10714
Fluid: ACID Type: A
Additive:
Prop Agent:
Formation Break Down Pressure:
Average Injection Rate:
Stages: Remarks: ISIP 2400
Remarks on PT Test # 001 INTERVALS 10666 1/2-10671 1/2-10710 1/2-10714 1/2 10710 1/2 10714 1/2

PT # 002

Top Formation: MANNING CANYON
Base Formation: MANNING CANYON
Oil: Condst:
Gas: 690 MCFD Water:
Interval: 10665 - 10714 GROSS Method: FLOWING
Duration of Test: Hours Choke: 20/64
Oil: Gravity: GOR:

Date: 9/30/2004
Time: 11:32 AM

PI/Dwights PLUS on CD Scout Ticket

Prod Method: PERF
Pressures: FTP: 416 SITP:
FCP: 496 SICP:
FBHP: BHT: 104 Depth:
Perforations: 369MNGC MANNING CANYON
Perf Interval: 10665 - 10714 Shots/Ft:

PT # 003

Top Formation: MANNING CANYON
Base Formation: MANNING CANYON
Oil: Condst:
Gas: 555 MCFD Water:
Interval: 10665 - 10714 GROSS Method: FLOWING
Duration of Test: Hours Choke:
Oil: Gravity: GOR:
Prod Method: PERF
Pressures: FTP: 305 SITP:
FCP: 380 SICP:
Perforations: 369MNGC MANNING CANYON
Perf Interval: 10665 - 10714 Shots/Ft:

Casing, Liner, Tubing

Tubing 2 3/8 IN @ 10714 TUBING
Type of Rmk, Remark: CASING : NO NEW CSG REPORTED

Formations and Logs

Top Formation	Measured Depth	Top TVD	Base Depth	Base TVD	Source	Lith-ology	Age code
FERRON	2485				LOG		603
DAKOTA	3085				LOG		602
CEDAR MOUNTAIN	3118				LOG		602
BUCKHORN	3868				LOG		602
MORRISON / SUNDANCE/	3903				LOG		553
CURTIS	4795				LOG		553
ENTRADA	4980				LOG		553
CARMEL	5712				LOG		553
NAVAJO	6395				LOG		551
KAYENTA	6754				LOG		503
WINGATE	6872				LOG		503
CHINLE	7248				LOG		503
SHINARUMP	7542				LOG		503
MOENKOPI	7575				LOG		501
SINBAD	8243				LOG		501
KAIBAB /LM/	8704				LOG		452
COCONINO	8880				LOG		452
MANNING CANYON	10345				LOG		369
REDWALL	11445				LOG		359

Old Information

Prior Well Number: 1
Prior Lease: NO SPRINGS UNIT
Spud Date: SEP 22, 1964

Date: 9/30/2004
Time: 11:32 AM

PI/Dwights PLUS on CD Scout Ticket

Old Information

Old TD: 12737

Operator Address

Street or PO Box:

City:
State, Zip: ,
Country:
Phone: Fax:
E-Mail:
Agent Name: Agent Code:
Agent Remark: