

FILE NOTATIONS

Entered in NID File

Entered On S R Sheet _____

Location Map Pinned _____

Card Indexed

I W R for State or Fee Land _____

Checked by Chief RS

Copy NID to Field Office _____

Approval Letter

Disapproval Letter _____

COMPLETION DATA:

Date Well Completed 6-9-61

OW _____ WW _____ TA _____

GW _____ OS PA _____

Location Inspected _____

Bond released _____

State of Fee Land _____

LOGS FILED

Driller's Log 7-18-63

Electric Logs (No. 1) 7

E _____ I _____ E-I GR _____ GR-N _____ Micro

Lat _____ Mi-L _____ Sonic Others: Gamma Activity Log (2)

Lithology Log (2)

Section Survey

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

Salt Lake City 14, Utah

REPORT OF OPERATIONS AND WELL STATUS REPORT

State Utah County Uintah Field or Lease Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for

October, 1960.

Agent's address P. O. Box 473

Company H. M. Byllesby & Co.

Vernal, Utah

Signed *[Signature]*

Phone 1060

Agent's title Representative

State Lease No. _____ Federal Lease No. _____ Indian Lease No. _____ Fee & Pat.

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)
G NE-SW 5	13S	20 E	2 2					Spud Oct. 23, 1960. Set 277 ft. of 13 3/8" 48# casing (new). Cemented with 200 sacks cement. Nippling up on Oct. 31, 1960

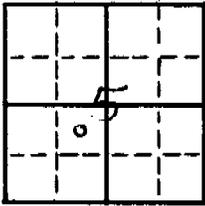
NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

FILE IN DUPLICATE

*STATUS: F-Flowing P-Pumping GL-Gas Lift
SI-Shut In D-Dead
GI-Gas Injection TA-Temp. Aban.
WI-Water Injection

(SUBMIT IN DUPLICATE)

LAND:



STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

STATE CAPITOL BUILDING
SALT LAKE CITY 14, UTAH

Fee and Patented.....
State
Lease No.
Public Domain
Lease No.
Indian
Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

Notice of Intention to Drill.....	<input checked="" type="checkbox"/>	Subsequent Report of Water Shut-off.....	
Notice of Intention to Change Plans.....	<input type="checkbox"/>	Subsequent Report of Altering Casing.....	
Notice of Intention to Redrill or Repair.....	<input type="checkbox"/>	Subsequent Report of Redrilling or Repair.....	
Notice of Intention to Pull or Alter Casing.....	<input type="checkbox"/>	Supplementary Well History.....	
Notice of Intention to Abandon Well.....	<input type="checkbox"/>		

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

October 20, 19 60

Well No. #2 Byllesby is located 2080 ft. from {N} {S} line and 1920 ft. from {E} {W} line of Sec. 5

C-NE-SW-5 T. 13 S. R. 20 E. S. L. M.

Wildcat Uintah Utah

The elevation of the derrick floor above sea level is 6154 feet. ground

A drilling and plugging bond has been filed with State of Utah

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 work, surface formation, and date anticipate spudding-in.)

Plan to drill 8000' well with rotary tools to test basal
Base Green River sands from 2300-2550'; Wasatch sands from 3100 to 3700'.
Mesaverde formation from 4900 to 7200 and Emery sand of the Mancos from
7800 - 8000'. Unless oil or gas is encountered at a lesser depth.
Miracle - Wooster Drilling Company, Contractor
Plan to set approximately 300' of 13 3/8" of H-40 smls. casing T. & C., 48# and
cement from top to bottom by circulating. Plan to drill 8 3/8" hole with rotary tools
using water as drilling fluid to 2000' and then to use a low water loss, low solids,
oil emulsion mud.

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

Company H. M. Byllesby & Company

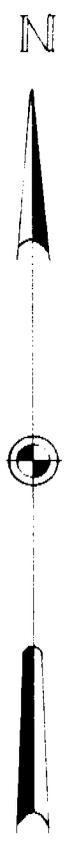
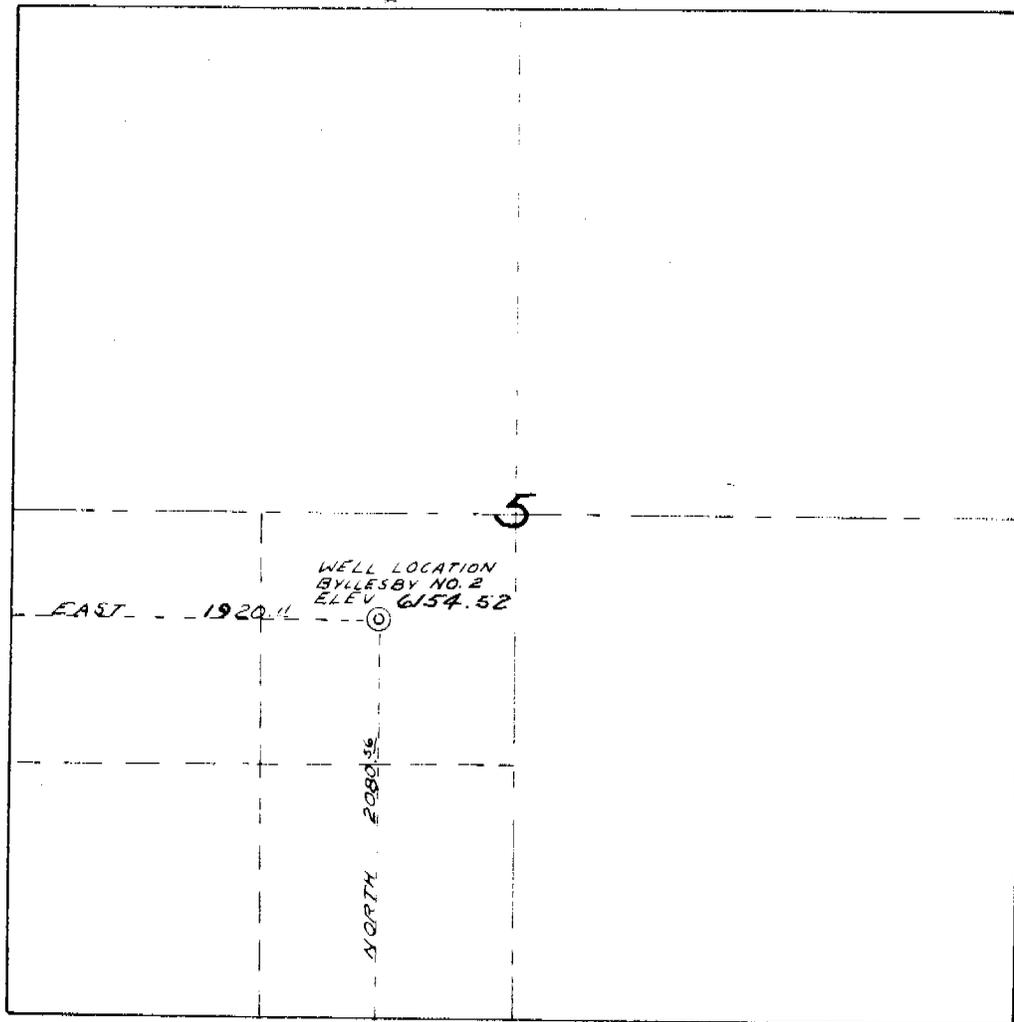
Address 135 South LaSalle Street

Chicago 3, Illinois

By Robert E. Covington
Title Geologist

c/o Caldwell & Covington, P. O. Box 473, Vernal, Utah

INSTRUCTIONS: A plat or map must be attached to this form showing the location of all leases, property lines, drilling and producing wells, within an area of sufficient size so that the Commission may determine whether the location of the well conforms to applicable rules, regulations and orders.



WELL LOCATION

BYLLESBY NO. 2

H.M. BYLLESBY & CO., INC.

CHICAGO, ILLINOIS

SITUATED IN NE¹/₄ SW¹/₄, SECTION 5

T13S, R 20E. OF THE S.L.B.M.

UINTAH COUNTY, UTAH

SCALE 1 INCH = 1000 FEET

REF. POINT EAST 150' ELEV. 6156.51

REF. POINT WEST 130' ELEV. 6154.71

This is to certify that the Well Location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Date surveyed, October 28th 1960

Tom Walker
 Tom Walker
 Reg. Land Surveyor
 Glenwood Springs, Colorado
 Certificate No. 1549-UTAH

CALDWELL AND COVINGTON

PETROLEUM CONSULTANTS

VERNAL, UTAH

ROBERT E. COVINGTON
CRAIG CALDWELL

October 21, 1960

PHONE 1060

Oil & Gas Conservation Commission
State of Utah
State Capitol Building
Salt Lake City 14, Utah

Gentlemen:

Enclosed please find an original and one of our "Sundry Notices
& Reports on Wells" for H. M. Byllesby & Company wells 1, 2 & 3.

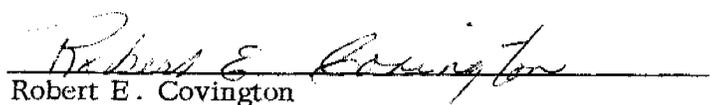
Also enclosed are survey plats showing the location of the wells.

Thank you for your verbal approval by telephone to spud our #2
Byllesby well.

Very truly yours,

CALDWELL & COVINGTON

REC:jd


Robert E. Covington

October 24, 1960

Caldwell & Covington
P. O. Box 473
Vernal, Utah

Attention: Robert E. Covington, Geologist

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. #2 Hyllesby, which is to be located 2080 feet from the south line and 1920 feet from the west line of Section 5, Township 13 South, Range 20 East, SLM, Uintah County, Utah.

Please be advised that approval to drill said well is hereby granted.

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

Please take note that should it be necessary to plug and abandon said well you are hereby requested to give advance notice of the date and time said plugging will take place to one of the following named individuals, by phone or otherwise, in order that our petroleum engineer may be present to inspect the manner in which the well is being plugged:

C. B. FREIGHT, Executive Secretary
Office Phone: DA 8-0701 or DA 2-4721, Ext. 438
Home Phone: HU 5-2721

ROBERT L. SCHMIDT, Chief Petroleum Engineer
Office Phone: DA 8-0701 or DA 2-4721, Ext. 438
Home Phone: AM 6-8616

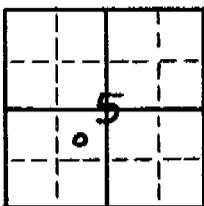
Address all other forms of communication to the Utah Oil and Gas Conservation Commission, 310 Newhouse Building, Salt Lake City, Utah

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

GLENN B. FREIGHT,
EXECUTIVE SECRETARY

GEF:ang
cc: H. N. Hyllesby & Co.



STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

STATE CAPITOL BUILDING
SALT LAKE CITY 14, UTAH

Fee and Patented.....
State.....
Lease No.
Public Domain.....
Lease No.
Indian.....
Lease No.

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 Altering Casing.....	X
Notice of Intention to Redrill or Repair.....	Subsequent Report of Redrilling or Repair.....	
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)

October 29, 1960

Well No. #2 Byllesby is located 2080 ft. from S line and 1920 ft. from W line of Sec. 5

C-NE-SW-5 (1/4 Sec. and Sec. No.) T. 13 S. (Twp.) R. 20 E. (Range) S.L.M. (Meridian)

Wildcat (Field) Uintah (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is 6154 feet ground

A drilling and plugging bond has been filed with State of Utah

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 work, surface formation, and date anticipate spudding in.)

Spudded well on October 23, 1960. Miracle and Wooster Drilling Company, Contractor. T. D. 248' with 17 1/4" hole. Deviation 3° Due to hole deviation. Operator requests permission to set 248' of 13 3/8" casing in lieu of 300' due to hole trouble. Plan to cement casing by circulating from bottom to surface.

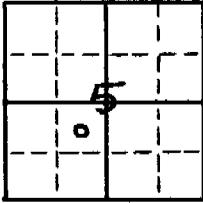
I understand that this plan of work must receive approval in writing by the Commission before operations may be commenced.

Company HMByllesby & Company

Address 135 South LaSalle Street By Robert E. Covington

Chicago 3, Illinois Title Geologist
c/o Caldwell & Covington, P. O. Box 473, Vernal, Utah

INSTRUCTIONS: A plat or map must be attached to this form showing the location of all leases, property lines, drilling and producing wells, within an area of sufficient size so that the Commission may determine whether the location of the well conforms to applicable rules, regulations and orders.



STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

STATE CAPITOL BUILDING
SALT LAKE CITY 14, UTAH

Fee and Patented.....
State.....
Lease No.
Public Domain.....
Lease No.
Indian.....
Lease No.

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 Altering Casing.....	X
Notice of Intention to Redrill or Repair.....		Subsequent Report of Redrilling or Repair.....	
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)

October 29, 19 60

Well No. #2 Byllesby is located 2080 ft. from {S} line and 1920 ft. from {W} line of Sec. 5

C-NE-SW-5 T. 13 S. R. 20 E. S.L.M.
(¼ Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Wildcat Uintah Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6154 feet. ground

A drilling and plugging bond has been filed with State of Utah

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 work, surface formation, and date anticipate spudding-in.)

Spudded well on October 23, 1960. Miracle and Wooster Drilling Company, Contractor. T. D. 248' with 17 1/4" hole. Deviation 3° Due to hole deviation. Operator requests permission to set 248' of 13 3/8" casing in lieu of 300' due to hole trouble. Plan to cement casing by circulating from bottom to surface.

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

Company HMByllesby & Company
Address 135 South LaSalle Street Chicago 3, Illinois
By Robert E. Covington
Title Geologist
c/o Caldwell & Covington, P. O. Box 473, Vernal, Utah

INSTRUCTIONS: A plat or map must be attached to this form showing the location of all leases, property lines, drilling and producing wells, within an area of sufficient size so that the Commission may determine whether the location of the well conforms to applicable rules, regulations and orders.

CALDWELL AND COVINGTON

PETROLEUM CONSULTANTS

VERNAL, UTAH

ROBERT E. COVINGTON
CRAIG CALDWELL

October 31, 1960

PHONE 1060

Mr. Cleon B. Feight, Executive Secretary
Oil & Gas Conservation Commission
State of Utah
310 Newhouse Building
Salt Lake City 11, Utah

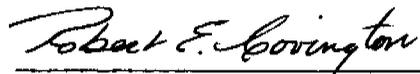
Dear Sir:

We respectfully request that all information, other than drilling depth, with regard to the No. 2 Byllesby well in section 5 of Township 13 South - Range 20 East, S.L.M, Uintah County, Utah be kept confidential within the period allowed by the State of Utah Oil and Gas Commission.

Very truly yours,

H. M. BYLLESBY & COMPANY

REC:jd



Robert E. Covington, Geologist

cc: H. M. Byllesby & Co.
Landon B. Stableford

CALDWELL AND COVINGTON

PETROLEUM CONSULTANTS
VERNAL, UTAH

ROBERT E. COVINGTON
CRAIG CALDWELL

October 31, 1960

PHONE 1060

Mr. Cleon B. Feight, Executive Secretary
Oil & Gas Conservation Commission
State of Utah
310 Newhouse Building
Salt Lake City 11, Utah

Re: #2 Byllesby Well
Sec. 5, T. 13 S. - R. 20 E.
Uintah County, Utah

Dear Sir:

Will you please cancel our Notices of Intentions to change plans, inasmuch as we were able to deepen successfully and have now set 278' feet of 13 3/8" surface casing.

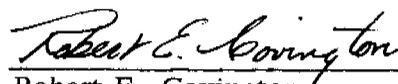
Thank you for your consideration in this matter.

Very truly yours,

CALDWELL & COVINGTON

REC:jd

cc: H. M. Byllesby & Co.
Landon B. Stableford



Robert E. Covington

CALDWELL AND COVINGTON

PETROLEUM CONSULTANTS

VERNAL, UTAH

ROBERT E. COVINGTON
CRAIG CALDWELL

October 29, 1960

PHONE 1060

State of Utah
Oil & Gas Conservation Commission
State Capitol Building
Salt Lake City 14, Utah

Gentlemen:

Enclosed please find notice to alter casing on the #2 Byllesby well.

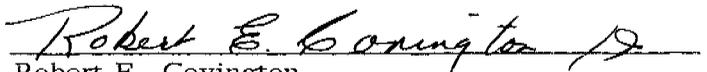
Would you please send to this office four (4) dozen copies of Sundry Notices and Reports on Wells, form OGCC-1?

Thank you for your consideration in this matter.

Very truly yours,

CALDWELL & COVINGTON

REC:jd


Robert E. Covington

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

Salt Lake City 14, Utah

REPORT OF OPERATIONS AND WELL STATUS REPORT

State Utah County Uintah Field or Lease Wildcat

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

Agent's address P. O. Box 473 Company H. M. Byllesby & Co.

Vernal, Utah Signed *F. Elvington*

Phone 1060 Agent's title Representative

State Lease No. _____ Federal Lease No. _____ Indian Lease No. _____ Fee & Pat.

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)
NW-NW-26	12S	20E	1					Drilling at 6959'
C-NE-SW-5	13S	20E	2					Drilling at 7321'
C-SW1/4-23	13S	20E	3					Drilling at 6071'

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

FILE IN DUPLICATE

*STATUS: F-Flowing P-Pumping GL-Gas Lift
SI-Shut In D-Dead
GI-Gas Injection TA-Temp. Aban
WI-Water Injection

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

Salt Lake City 14, Utah

REPORT OF OPERATIONS AND WELL STATUS REPORT

State Utah County Wasatch Field or Lease Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for

March, 19 61

Agent's address P. O. Box 473

Company H. M. Dyllesby & Co.

Vernal, Utah

Signed Robert E. Dyllesby

Phone 1000

Agent's title Representative

State Lease No. _____ Federal Lease No. _____ Indian Lease No. _____ Fee & Pat.

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)
NW-NW-2 6	12S	20E	1					Shut in. Waiting on completion rig. Ran 7" casing, cemented with 2100 sacks cement. Landed at 7150.
C-NW-SW-5	13S	20E	2					Shut in. Waiting on completion rig. Ran 7" casing, cemented with 1200 sacks cement. Landed at 8438'.
C-SW/4-23	13S	20E	3					T.D. 6899. Set 6897' of 7" casing, cemented with 1200 sacks. Perfs: 1. 6749-57 4 jets/ft 2. 6742-62 " " " " 3. 6702-12 " " " " 4. 6366-76 " " " " 5. 6694-84 " " " " Squeeze 6. 6010-20 " " " " 7. 5908-18 " " " " Squeeze 8. 5866-76 " " " " Squeeze Drilling bridge plugs on 3-30-61. Ran casing scraper. Swabbing well through 2" tubing with perforated nipple landed at 6741 and productive packer set at 8245. Well flowing gas, diesel and mud.

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

FILE IN DUPLICATE

*STATUS: F-Flowing P-Pumping GL-Gas Lift
SI-Shut In D-Dead
GI-Gas Injection TA-Temp. Aban.
WI-Water Injection

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

Salt Lake City 14, Utah

REPORT OF OPERATIONS AND WELL STATUS REPORT

State Utah County Uintah Field or Lease Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for

April, 1961

Agent's address P. O. Box 473 Company H. M. Byllesby & Co.

Vernal, Utah Signed [Signature]

Phone 1060 Agent's title Representative

State Lease No. _____ Federal Lease No. _____ Indian Lease No. _____ Fee & Pat.

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)
CONFIDENTIAL - TITE HOLES								
NW-NW-26	12S	20E	1					Perf. 6942-56 & 6898-6908 Frac'd both zones individually. (Mesaverde fm.) Perf. 5680-5694, 5640-5650. Acidized perfs and frac'd. (Mesaverde fm.)
C-NW-SW-5	13S	20E	2					Perforated 8188-8192, 8096-8120 with 3 thor jets per foot. Frac'd both zones individually. (Blackhawk member of the Mesaverde)
C-SW/4-23	13S	20E	3					Testing well by flowing. Well flowing diesel, mud, oil & gas. No gauge. Preparing to install Camco lift valve and separator as oil is loading up tubing.

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

FILE IN DUPLICATE

*STATUS: F-Flowing P-Pumping GL-Gas Lift
SI-Shut In D-Dead
GI-Gas Injection TA-Temp. Aban.
WI-Water Injection

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

Salt Lake City 14, Utah

REPORT OF OPERATIONS AND WELL STATUS REPORT

State Utah County Uintah Field or Lease Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for May, 19 61

Agent's address P.O. Box 473 Company H. M. Byllesby & Co.
Vernal, Utah
Signed *Robert E. Lovings*
Phone 1060 Agent's title Representative

State Lease No. _____ Federal Lease No. _____ Indian Lease No. _____ Fee & Pat.

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)
CONFIDENTIAL - TITE HOLES								
NW-NW-26	12S	20E	1					Perforated 4403-4404 & Squeezed with 100 sacks cement. Waited on cement 34 hours. Ran McCullough Cement log. Perf'd with 6 Perfo frac changes at 4394-4387. Spotted acid across perp and frac'd with salt water, sand & walnut hulls. Swabbed zone. Flined gas, mud & salt water.
C-NW-SW-5	13S	20E	2					Perforated 5792-5810 & 5754-5767 with 3 thor jets per foot. Acidized perfs and frac'd both zones individually. Squeezed liner perp due to communication. Perf'd 5919-5920 w/4 perfo jets for water shut off.
C-SW/4-23	13S	20E	3					Installed Camco lift & separator. Flowing & testing.

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

FILE IN DUPLICATE

*STATUS: F-Flowing P-Pumping GL-Gas Lift
SI-Shut In D-Dead
GI-Gas Injection TA-Temp. Aban.
WI-Water Injection

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

Salt Lake City 14, Utah

REPORT OF OPERATIONS AND WELL STATUS REPORT

State Utah County Uintah Field or Lease Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for

June, 19 61

Agent's address P.O. Box 473 Company H. M. Byllesby & Co.

Vernal, Utah Signed *[Signature]*

Phone 1060 Agent's title Representative

State Lease No. _____ Federal Lease No. _____ Indian Lease No. _____ Fee & Pat.

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)
CONFIDENTIAL - TITE HOLES								
NW-NW-26	12S	20E	1					Washed all perms with mud lax Ran tubing, landed at 6950 KB. Displaced invermul with diesel. Set Model R packer at 4476 with sliding sleeve on top. Installed Christmas tree. Swabbed well. Lower zone producing through tubing, upper zone shut off by sliding sleeve. Preparing to open sleeve. Testing lower zone on flow tests.
C-NW-SW-5	13S	20E	2					Flowed & tested well. Swabbed & stop cocked well. Landed 2 7/8" E U F tubing at 8158 KB. Side door choke at 5894. Installed Christmas tree. Flowing and testing well by stop cocking.
C-SW/4-23	13S	20E	3					Moved in workover rig on 6-15-61. Displaced invermul with salt water. Cleaned out hole to 6862. Attempted to test interval 6684-6712. Packers failed Tested interval 6366-76. Recovered invermul, salt water & gas. Tested perf. 6010-20. Packer failed. Tested interval 6744-57. Frac'd zone. Recovered mud, salt water & gas. Tested interval 6684-6712. Recovered mud lax, water, gas & mud. Gave zone mud lax treatment. swabbed, gas & mud lax.

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

FILE IN DUPLICATE

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SI-Shut In D-Dead
GI-Gas Injection TA-Temp. Aban.
WI-Water Injection

**STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION**

Salt Lake City 14, Utah

REPORT OF OPERATIONS AND WELL STATUS REPORT

Confidential

State Utah County Uintah Field or Lease Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for July, 19 61.

Agent's address P. O. Box 473 Company H. M. Byllesby and Company

Vernal, Utah Signed _____

Phone 1060 Agent's title Representative

State Lease No. _____ Federal Lease No. _____ Indian Lease No. _____ Fee & Pat.

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)
NW-NW_26	12	20E	1					<p style="text-align: center;">CONFIDENTIAL - TITE HOLES</p> <hr/> <p style="text-align: center;">See Attached Enclosures</p> <p style="text-align: center;">Confidential</p> <p style="text-align: center;">See Attached Enclosures</p>
C-NW-SW-5	13S	20E	2					<p style="text-align: center;">See Attached Enclosures</p>

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

FILE IN DUPLICATE

*STATUS: F-Flowing P-Pumping GL-Gas Lift
 SI-Shut In D-Dead
 GI-Gas Injection TA-Temp. Aban.
 WI-Water Injection

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

Salt Lake City 14, Utah

Confidential

REPORT OF OPERATIONS AND WELL STATUS REPORT

State Utah County Uintah Field or Lease Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for
August, 1961

Agent's address P.O. Box 473 Company H. M. Byllesby and Company

Vernal, Utah Signed _____

Phone 1060 Agent's title Representative

State Lease No. _____ Federal Lease No. _____ Indian Lease No. _____ Fee & Pat.

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)
NW-NW-26	12S	20E	1					Confidential See Enclosures
C-NW-SW-5	13S	20E	2					See Enclosures

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

FILE IN DUPLICATE

*STATUS: F-Flowing P-Pumping GL-Gas Lift
SI-Shut In D-Dead
GI-Gas Injection TA-Temp. Aban.
WI-Water Injection

CALDWELL AND COVINGTON

PETROLEUM CONSULTANTS

VERNAL, UTAH

WELL HISTORY AND GEOLOGIC REPORT

H. M. BYLLESBY & CO., INC.

No. 2 Well

NE-SW-5

T 13S-R 20E SLM

Uintah Co., Utah

OFFICE: CALDWELL AND COVINGTON
Vernal, Utah

Summer - 1961

OPERATOR : H. M. Byllesby & Co., Inc.

WELL: Byllesby #2

LOCATION: NE SW, (1920' fsl x 2080' fsl) Sec. 5, T 13S-R 20E,
Uintah County, Utah.

ELEVATION: 6163 K.B. 6154 Ground

COMMENCED: October 23, 1960

SET SURFACE: October 29, 1960

FROM UNDER SURFACE: November 2, 1960

REACHED T.D. January 31, 1961

TOTAL DEPTH 8520'

LITHOLOGY: Leonard Murphy

CASING: Surface: 295.77 of 13 3/8 J-55, 48# with 200 sacks.
Prod.: 8438.66 of N-80 23# and 26# 7" casing with
1200 sacks.

HOLE SIZE: 8 3/4"

CONTRACTOR: Miracle & Wooster Drilling Co. Vernal, Utah

TOOL PUSHER Ralph Murry

TYPE RIG: Unit 15

FORMATION TOPS
Wasatch 2860
Mesa Verde 5580
Mancos 7970

SAMPLES: 10 ft. rig samples

MUD PROGRAM: 0-2200 Gel - Low pH
2200-8514 Lime - oil emulsion

BIT RECORD

<u>NO.</u>	<u>SIZE:</u>	<u>MAKE:</u>	<u>TYPE:</u>	<u>FROM:</u>	<u>TO:</u>	<u>.FEET:</u>	<u>HOURS:</u>
1	12 1/4	Reed	YTI	0	157	157	26 1/2
1	8 3/4	Security	S-6	157	279	122	25
1	12 1/4	Reed	Reamer	157	278	121	10 1/4
1	17 1/4	Reed	Reamer	0	278	278	32
1	8 3/4	Security	S-6	279	335	68	11
2	8 3/4	Security	S-6	335	567	232	25 1/4
3	8 3/4	Smith	K2P	567	698	131	18 3/4
4	8 3/4	Security	S-6	698	1023	325	22 1/2
5	8 3/4	Security	S-6	1023	1201	179	12 1/2
6	8 3/4	Reed	YTL	1201	1516	315	15 1/4
7	8 3/4	Smith	K2P	1516	1902	386	18
8	8 3/4	Hughes	OSC-IC	1902	2125	223	15 1/4
9	8 3/4	Smith	K2P	2125	2332	207	21 1/4
10	8 3/4	Reed	VTL	2332	2594	262	22
11	8 3/4	Hughes	OSC-IC	2594	2662	68	5
12	8 3/4	Security	S-6	2662	2840	178	21 3/4
13	8 3/4	Smith	K2P	2840	3051	211	19
14	8 3/4	Reed	YSI	3051	3206	155	17 1/4
15	8 3/4	Hughes	OSC-IC	3206	3434	228	21
1	6 3/4	Hycalog	dal core	3434	3481	48	7 1/2
16	8 3/4	Security	S-6	3434	3590	156	16 3/4
17	8 3/4	Hughes	OSC-IC	3590	3812	222	20
18	8 3/4	Hughes	OWV	3812	3984	172	22
19	8 3/4	Reed	YTL	3984	4184	200	23 3/4
20	8 3/4	Smith	K2P	4184	4402	218	23
21	8 3/4	Smith	K2P	4402	4581	179	22 1/4
22	8 3/4	Security	S-6	4581	4750	169	20 1/2
23	8 3/4	Reed	YTL	4750	4814	64	11 1/2
24	8 3/4	Security	M4N	4814	4879	65	11 3/4
25	8 3/4	Smith	5V2	4879	4967	88	12 1/2
26	8 3/4	Hughes	OWV	4967	5027	60	14
27	8 3/4	Reed	YM	5027	5148	121	22 1/2
28	8 3/4	Smith	C-2	5148	5202	54	15
29	8 3/4	Security	M4L	5202	5269	57	14 1/4
30	8 3/4	Reed	YM	5269	5319	50	13 1/2
2	7 3/4	Hycalog	dia core	5319	5357	38	15 3/4
31	8 3/4	Security	H-7	5357	5424	67	10 3/4
32	8 3/4	Security	M4L	5424	5553	129	19 1/2
33	8 3/4	Reed	YM	5553	5633	80	12 1/2
34	8 3/4	Security	H-7	5633	5690	57	10 1/2
35	8 3/4	Security	M4L	5690	5750	60	12 3/4
36	8 3/4	Hughes	OW	5750	5816	66	11 1/2
37	8 3/4	Hughes	OWC	5816	5896	80	11 1/2
38	8 3/4	Hughes	OWC	5896	5990	94	11 3/4

39	8 3/4	Reed	YM	5990	6118	128	17 1/4
40	8 3/4	Hughes	OWL	6118	6158	40	4 1/2
3	7 3/4	Hycalog	dia core	6158	6179	21	9 3/4
41	8 3/4	Smith	C-4	6179	6300	121	25
42	8 3/4	Security	M4L	6300	6413	113	22 1/2
43	8 3/4	Smith	T-2	6413	6486	73	13 1/2
44	8 3/4	Security	M4L	6486	6552	68	9 3/4
45	8 3/4	Reed	YM	6552	6684	132	17 3/4
46	8 3/4	Hughes	OWC	6684	6808	124	14 1/2
4	7 3/4	Hycalog	dia core	6808	6858	50	12 1/2
47	8 3/4	Smith	T-2	6808	6942	134	17 1/2
48	8 3/4	Security	M4L	6942	6993	51	14 3/4
49	8 3/4	Hughes	W7	6993	7007	10	6 1/2
50	8 3/4	Smith	C-4	7007	7026	19	5 3/4
51	8 3/4	Hughes	W7R2	7026	7042	16	6 1/2
52	8 3/4	Smith	4W4	7042	7068	26	6 3/4
53	8 3/4	Smith	4W4	7068	7085	17	8 3/4
54	8 3/4	Security	H-7W	7085	7108	23	7 1/2
55	8 3/4	Smith	4W1	7108	7127	19	8
56	8 3/4	Smith	4W4	7127	7155	28	8 1/2
57	8 3/4	Smith	4W4	7155	7177	22	6
58	8 3/4	Security	H 9	7177	7180	3	5
59	8 3/4	Smith	HW4	7180	7208	28	7 1/2
60	8 3/4	Security	H-7	7208	7233	25	8 3/4
61	8 3/4	Smith	C-4	7233	7272	39	12 1/2
5	8 5/8	Hycalog	dia core	7272	7299	27	9 1/2
6	8 5/8	Hycalog	dia core	7299	7320	21	4 1/2
7	8 5/8	Hycalog	dia core	7320	7352	34	8 1/2
8	8 5/8	Hycalog	dia core	7352	7360	8	5
9	8 5/8	Hycalog	dia core	7360	7383	23	7 3/4
62	8 3/4	Security	H-7	7383	7423	40	9 1/2
63	8 3/4	Smith	C-4	7423	7490	67	12
64	8 3/4	Security	H-7	7490	7558	68	14 1/2
65	8 3/4	Smith	C-4	7558	7623	65	11 1/2
66	8 3/4	Security	H-7	7623	7673	50	10 1/4
67	8 3/4	Security	H-7	7673	7719	46	11
68	8 3/4	Security	H-7	7719	7739	20	6 3/4
69	8 3/4	Smith	L-4	7739	7759	20	7 3/4
70	8 3/4	Smith	4W4	7759	7791	27	11
71	8 3/4	Smith	4W4	7791	7791	0	0
72	8 3/4	Security	H-7	7791	7818	27	14 1/2
73	8 3/4	Security	M4L	7818	7833	15	6 1/2
74	8 3/4	Smith	C-4	7833	7849	16	11 3/4
75	8 3/4	Security	H7W	7849			

1-9-61 7705-7759--54 ft.
Drilling wt. 35,000#, Drift 2^o, Pump 800#, Mud wt. 9.7,
Vis. 54, Water loss 1.7, pH 12.5, Bit #68 and 69.

1-10-61 7759-7791--32 ft.
Drilling wt. 34,000#, Drift 2^o, Pump 800#, Mud wt. 9.6,
Vis. 54, Water loss 1.7, pH 12.3, Bit #70 and 71.
(Bit #71 damaged by slip handle falling in hole.)

1-11-61 7791-7792--1 ft.
Drilling wt. 35,000#, Drift 2^o, Pump 800#, Mud wt. 9.7,
Vis. 65, Water loss 1.7, pH 12.5. Run #3 for Electric logs.
Bit # 72

1-12-61 7792-7830--38 ft.
Drilling wt. 25,000#, Drift 2^o, Pump 800#, Mud wt. 9.7,
Vis. 65, Water loss 1.7, pH 12.5, Bit #73.

1-12-61 7830--
Drilling wt. 25,000#, Drift 2^o, Pump 800#, Mud wt. 9.8, Vis.
63, Water loss 1.8, pH 12. Bit #74.

12-30-60 7290-7321--31 ft.
Coring wt. 20,000#, Pump 1000#, Mud wt. 9.8, Vis. 51
Water loss 1.6, pH 12.5, Recovered Core #5, 7272-7299--
Rec. 24 ft. , Core #6 -- 7299-7321--Rec. 21.4 ft.,
DST #6 -- 7272-7321, packers failed.

12-31-60 7321-7352--31 ft.
Core #7, rec. 28.6 ft. Coring wt. 20,000#, Mud wt. 9.8,
Vis. 52, Pump 1000#, Water loss 1.7, pH 12.5

1-1-61 7352-7374--22 ft.
Core #8--7352-7360--rec. 8 ft., Coring wt. 20,000#,
Pump 1000#, Mud wt. 9.8, Vis. 54, Water loss 1.8,
pH 12.5, Coring for Core #9.

1-2-61 7374-7418--44 ft.
Core #9--7365-7383, rec. 20 ft.
Drilling wt. 36,000#, Drift 1 1/2°, Pump 800#, Mud wt. 9.8
Vis. 50, Water loss 1.7, pH 12.5, Bit #62

1-3-61 7418-7456--38 ft.
Drilling wt. 35,000#, Drift 1 1/2°, Pump 800#, Mud wt. 9.8,
Vis 56, Water loss 1.4, pH 12.5.

1-4-61 7456-7530--74 ft.
Drilling wt. 35,000#, Drift 1 1/2°, Pump 800#, Mud wt. 9.7
Vis. 53, Water loss 1.5, pH 12.5, Bit #63.

1-5-61 7530-7558--28 ft.
Drilling wt. 35,000#, Drift 1 1/2°, Pump 800#, Mud wt. 9.8,
Vis. 56, Water loss 1.5, pH 12.5, Bit #64. DST #7--
7496-7558--Rec. 290 drill mud.

1-6-61 7558-7632--74 ft.
Drilling wt. 35,000#, Drift 1 1/2°, Pump 800#, Mud wt. 9.8,
Vis. 55, Water loss 1.5, pH 12.5, Bit #66.

1-7-71 7632-7675--43 ft.
Drilling wt. 35,000#, Drift 1 1/2°, Pump 800#, Mud wt. 9.7,
Vis. 60, Water loss 1.5, pH 12.5, DST #8 -- 7629-7673--Rec. 570
slightly gas cut mud.

1-8-61 7675-7705--30 ft.
Drilling wt. 35,000#, Drift 1 1/2°, Pump 800#, Mud wt. 9.7,
Vis. 58, Water loss 1.6, pH 12.5, Bit # 67.

12-18-60 6684-6808--124 ft.
Drilling wt. 36,000#, Drift 1 1/2^o, Pump 800#, Mud wt. 9.8,
Vis 52, Water loss 1.7, pH 12.5, Bit #46.

12-19-60 6808-6858--50 ft. Core #4, Rec. 42 ft.
Coring wt. 20,000#, Mud wt. 9.8, Vis. 47, Water loss 2.8,
pH 12.3.

12-20-60 6858-6940--82 ft.
Drilling wt. 38,000#, Drift 1 1/4^o, Pump 800#, Mud wt. 9.8,
Vis. 49, Water loss 3.0, pH 12.4, Bit # 47.

12-21-60 6940-6992--52 ft.
Drilling wt. 40,000#, Drift 1 1/4^o, Pump 800#, Mud wt. 9.8,
Vis. 53, Water loss 2.7, pH 12.0, Bit #48.

12-22-60 6992-7024--32 ft.
Drilling wt. 40,000#, Drift 1 1/4^o, Pump 800#, Mud wt. 9.8,
Vis. 57, Water loss 2.7, pH 12.5, Bit #49 and Bit # 50.

12-23-60 7024-7065--41 ft.
Drilling wt. 40,000#, Drift 1 1/4^o, Pump 800#, Mud wt. 9.8
Vis. 55, Water loss 2.4, pH 12.0, Bit #50 and Bit #51 and #52.

12-24-60 7065-7106--41 ft.
Drilling wt. 40,000#, Drift 1 1/4^o, Pump 800#, Mud wt. 9.6,
Vis. 58, Water loss 2.7, pH 12.5, Bit #53, Bit #54.

12-25-60 7106-7142--36 ft.
Drilling wt. 40,000#, Drift 1 1/4^o, Pump 800#, Mud wt. 9.6,
Vis. 58, Water loss 2.7, pH 12.5, Bit 55 and 56.

12-26-60 7142-7178-- 36 ft.
Drilling wt. 36,000#, Drift 1 1/2^o, Pump 800#, Mud wt. 9.6,
Vis. 52, Water loss 2.4, pH 12.5, Bit # 57 and 58.

12-27-60 7178-7208--30 ft.
Drilling wt. 36,000#, Drift 1 1/2^o, Pump 800#, Mud wt. 9.6,
Vis. 56, Water loss 2.2, pH 12.5, Bit # 59.

12-28-60 7208-7248--40 ft.
Drilling wt. 36,000#, Drift 1 1/2^o, Pump 800#, Mud wt. 9.6,
Vis. 55, Water loss 2.3, pH 12.5, Bit #60 and 61.

12-29-60 7248-7290--42 ft.
Drilling wt. 36,000#, Drift 1 1/2^o, Pump 800#,
Coring wt. 20,000#, Pump 1000#, Mud wt. 9.8, Vis. 53
Water loss 1.8, pH 12.7, Coring for core #5.

12-7-60 5963-6024-- 61 ft.
Drilling wt. 32,000#, Drift 1 1/2^o, Pump 900#, Mud wt. 9.8,
Vis. 48, Water loss 1.7, pH 12.5, Run No. 1, Electric log.
Bit # 39.

12-8-60 6024-6146--122 ft.
Drilling wt. 32,000#, Drift 1 1/2^o, Pump 900#, Mud wt. 9.7,
Vis. 43, Water loss 1.4, pH 12.5, Bit # 40.

12-9-60 6149-6158--9 ft.
Drilling wt. 32,000#, Drift 1 1/2^o, Pump 900 #, Mud wt. 9.6,
Vis. 45, Water loss 1.4, pH 12.5, DST #2 6142-6158, Rec.
10 ft. very slightly gas cut mud.

12-10-60 6158-6214--56 ft.
Drill wt. 40,000#, Drift 1 1/2^o, Pump 800#, Mud wt. 9.6,
Vis. 43, Water loss 1.6, pH 12.5, Core #3 6158-6179, Rec.
20.4'. Bit # 41.

12-11-60 6214-6300--86 ft.
Drilling wt. 42,000#, Drift 1 1/2^o, Pump 800#, Mud wt. 9.7,
Vis 44, Water loss 2.2, pH 12.5, DST #3, 6223-6300, Rec. 350
Drilling mud.

12-12-60 6300-6370--70 ft.
Drilling wt. 40,000#, Drift 1 1/2^o, Pump 800#, Mud wt. 9.6,
Vis. 44, Water loss 2.1, pH 12.5, Bit # 42.

12-13-60 6370-6450--80 ft.
Drilling wt. 36,000#, Drift 1 1/2^o, Pump 800#, Mud wt. 9.7,
Vis. 42, Water loss 3.2, pH 12.5, Bit # 43.

12-14-60 6450-6486--36 ft.
Drilling wt. 34,000#, Drift 1 1/2^o, Pump 800#, Mud wt. 9.6,
Vis. 42, Water loss 3.2, pH 12.5, Bit #43.

12-15-60 6486-6551--65 ft.
Drilling wt. 38,000#, Drift 1 1/4^o, Pump 800#, Mud wt. 9.7,
Visc. 50, Water loss 2.8, pH 12.5, DST #4, 6447-6551',
Recovered 210' very slightly gas cut mud.

12-16-60 6551-6684--133 ft.
Drilling wt. 38,000#, Drift 1 1/4^o, Pump 800#, Mud wt. 9.9,
Vis. 50, Water loss 3.0, pH 12.5, Bit # 45.

12-17-60 6684--No drilling
Mud wt. 9.9, Vis 50, Water loss 1.6, pH 12.5.
DST #5 6662-6684, Recovered 20' drilling mud.

11-26-60 5050-5154--104 ft.
Drilling wt. 30,000#, Drift 1^o, Pump 900#, Mud wt. 9.6,
Vis. 45, Water loss 2.3, pH 12.5, Bit #27.

11-27-60 5154-5202--48 ft.
Drilling wt. 30,000#, Drift 1^o, Pump 900#, Mud wt. 9.6,
Vis. 45, Water loss 2.6, pH 12.5, Bit #28.

11-28-60 5202-5284--82 ft.
Drilling wt, 30,000#, Drift 1^o, Pump 900#, Mud wt. 9.6
Vis, 45, Water loss 2.6, pH 12.5, Bit #29.

11-29-60 5284-5326--42 ft.
Drilling wt. 30,000#, Drift 1^o, Pump 900#, Mud wt. 9.6
Vis. 41, Water loss 2.2, pH 12.6, Bit # 30.

11-30-60 5326-5394--63 ft.
Drilling wt. 30,000#, Drift 1^o, Pump 1000#, Mud wt. 9.2
Vis. 42, Water loss 1.5, pH 12.5, Bit #31 and Hycalog Core
Bit run #2 5319-5356'.

12-1-60 5394-5527--133 ft.
Drilling wt. 32,000#, Drift 3/4^o, Pump 900#, Mud wt. 9.4
Vis. 43, Water loss 2.0, pH 12.5, Bit # 32.

12-2-60 5526-5634--107 ft.
Drilling wt. 32,000#, Drift 3/4^o, Pump 900#, Mud wt. 9.6,
Vis 42, Water loss 2.0, pH 12.5, Bit #33.

12-3-60 5634-5718--84 ft.
Drilling wt. 32,000#, Drift 3/4^o, Pump 900#, Mud weight 9.6,
Vis. 42, Water loss 1.9, pH 12.3, Bit # 34--Bit # 35.

12-4-60 5718-5815--97 ft.
Drilling wt. 32,000#, Drift 3/4^o, Pump 900#, Mud wt. 9.7,
Vis. 40, Water loss 1.8, Bit # 36.

12-5-60 5815-5896--81 ft.
Drilling wt. 32,000#, Drift 1 1/2^o, Pump 900#, Mud wt. 9.7,
Vis. 40, Water loss 2.8, pH 12.5, Bit # 37.

12-6-60 5896-5963--47 ft.
Drilling wt. 32,000#, Drift 1 1/2^o, Pump 900#, Mud wt. 9.7,
Vis. 42, Water loss 2.5, pH 12.5, Bit # 38, DST #1 5754-5896,
Packers failed -- straddle test.

WELL HISTORY

- 11-14-60 Drilled 3305-3454--149 ft. ^o
 Drilling wt. 25,000#, Drift 1 1/2°, Pump 650#, Mud wt. 9.2,
 Vis. 45, Water loss 2, pH 12.5, Bit #15.
- 11-15-60 3454-3554--100 ft.
 Drilling wt 18,000#, Drift 1 1/4° ^o, Pump 700#, Mud wt. 9.2,
 Vis. 37, Water loss 2.0, pH 12.0, Bit #16
- 11-16-60 3554-3780--226 ft.
 Drilling wt. 20,000#, Drift 1 1/2° ^o, Pump 800#, Mud wt. 9.3
 Vis. 40, Water loss 2.4, pH 12.5, Bit #17.
- 11-17-60 3780-3940--160'
 Drilling wt. 25,000#, Drift 1 3/4° ^o, Pump 800#-; Mud wt. 9.3
 Vis. 42, Water loss 3.1, pH 12.3, Bit #18.
- 11-18-60 3940-4080--140 ft.
 Drilling wt. 25,000#, Drift 1 3/4° ^o, Pump 800#, Mud wt. 9.2,
 Vis. 40, Water loss 2.1, pH 12.5, Bit #19.
- 11-19-60 4080-4254--174 ft.
 Drilling wt. 24,000#, Drift 1 3/4° ^o, Pump 800#, Mud wt. 9.4,
 Vis. 45, Water loss 3.9, pH 12.3, Bit #20.
- 11-20-60 4254-4456--202 ft.
 Drilling wt 25,000#, Drift 1 1/2° ^o, Pump 800#, Mud wt. 9.5,
 Vis. 40, Water loss 3.5, pH 12.5, Bit #21.
- 11-21-60 4456-4610--154 ft.
 Drilling wt. 25,000#, Drift 1 1/2° ^o, Pump 800#, Mud wt. 9.3,
 Vis. 40, Water loss 3.0, pH 12.0, Bit #22.
- 11-22-60 4610-4754--144 ft.
 Drilling wt. 25,000#, Drift 1 1/2° ^o, Pump 800#, Mud wt. 9.5,
 Vis. 40, Water loss 3.6, pH 12.0, Bit #23.
- 11-23-60 4754-4862--108'
 Drilling wt. 25,000#, Drift 1° ^o, Pump 800#, Mud wt. 9.6
 Vis. 40, Water loss 4.2, pH 12.2, Bit #24.
- 11-24-60 4862-4966--104 ft.
 Drilling wt. 25,000#, Drift 1° ^o, Pump 800#, Mud wt. 9.6
 Vis. 42, Water loss 3.0, pH 12.0, Bit # 25.
- 11-25-60 4966-5050--84'
 Drilling wt. 25,000#, Drift 1° ^o, Pump 900#, Mud wt. 9.5,
 Vis. 40, Water loss 2.7, pH 12.0, Bit #26.

H. M. BYLLESBY AND COMPANY, INC.

WELL HISTORY

H. M. BYLLESBY #2

June 29, 1961
D.E.A. Johnson

Location: NE SW, 2080 NSL 1920 EWL, Sec. 5 T13S R20E SLM, Uintah
County, Utah.
Elevation: Ground: 6154 KB: 6163
Spud Date: 10/24/60 Rotary Rlsd: 2/1/61
Contractr: Miracle & Wooster Drlg. Co. Rig: U-15 Drwks
Cmpltn Strtd: 4/1361 Unit Rlsd: 6/12/61
Contractor: Hegwer Drlg. Co. Unit: U-34 Drwks
TD: 8514 PBD: 8398 (Float Collar)
IPF: Format'n: Mesaverde
Emery (?)

Casing: Surface: 10 jts 295.77' 13-3/8" 48# H-40 @ 278 KB w
200 sax reg.
Product'n: 265 jts 8438.66' 7" 26# & 23# N-80 @ 8437 KB
w 1200 sax 50-50 pos.
Tubing: 260 jts 2-7/8" 6.50# J-55 EUE @ 3166 KB w
Model "R" pkr @ 5897 & sliding sleeve @ 5894.

Perforated Zones:

Stimulation Treatments:

Emery (?)
8188-8194
8096-8120
8188-8194
8096-8120
Mesaverde
5792-5810
5754-5767
5877-5878 (Jet nothes)
5847-5848 " "
5800-5801 " "
5877-5878

Would not breakdown @ 6000 psi
8000 gal Petrojel, 6,000# sand (Screened out)
{ 15,000 Gal Petrojel, 4,000# sand, 1100# Hulls
22,000 gal Petrojel, 10,000# sand, 1000# Hulls
22,000 gal Petrojel, 10,000# sand, 1000# Hulls
{ 32,000 gal Petrojel, 20,000# sand, 1450# Hulls
25,000 gal Salt Water, 9000# sand, 2000# Hulls

FORMATION TOPS:

	<u>DEPTH</u>	<u>DATUM</u>	<u>THICKNESS</u>
Green River	Surface	- -	2762
Nasatch	2762	/ 3401	851
Chapita Zone	3356	2807	257
Paleocene	3613	2550	1967
Mesaverde	5580	/ 583	2426
Castlegate	7710	- 1547	232
Mancos	8006	1843	- -
Emery (?)	8074	- 1911	- -
T. D.	8514	- -	- -

DRILL STEM TEST RECORD

- DST #1 5754-5774, Straddle packer test, packers failed.
- DST #2 6142-6158, open 2 hours, weak blow throughout, shut in 45 min. IHP: 3197#, ISIP: 188#, IFP: 62#, FFP: 62#, FSIP: 78#, FHP: 3197#, Recovered 10 feet very slightly gas cut mud.
- DST #3 6220-6300, open 2 hours, shut in 45 min. IHP: 3171#, ISIP: 76#, IFP: 76#, FFP: 107#, FSIP: 125#, FHP: 3158#. Recovered 350 feet muddy water. Analysis of recovered fluid, wt. 9.7, water loss 3.2, Chloride 1000 ppm, pH 12.3, Chromatograph analysis, average in parts per million, C₁ 24,200, C₂ 15,250 C₃ 3,420, C₄ 1,375, C₅ / 500.
- DST #4 6447-6551, open 1 hour 55 min, shut in 45 min. IHP: 3306#, ISIP: 219#, IF: 94#, FF: 172#, FSIP: 298#, FHP: 3275#. Recovered 210 feet drilling fluid.
- Top Sample: Analysis of recovered fluid, wt. 9.6, chloride 1000, pH 12.2. Chromatograph analysis, average in parts per million, C₁ 80,000, C₂ 20,000, C₃ 20,000# C₄ 17,500, C₅ / 18,000,
- Bottom sample: Wt. 9.6, chloride 800, pH 12.0, C₁ 24,000, C₂ 7500, C₃ 7500, C₄ 3500, C₅ / 1000.
- DST #5 6662-6684, open 1 hour, shut in 45 min. IHP: 3494#, ISIP: 19# IFP: 6#, FFP: 10#, FHP: 3447#. No final shut in taken. Recovered 20' drill mud.
- DST #6 7272-7321, packers failed due to fractures. Packers difficult to unseat.
- DST #7 7496-7558, open 1 1/2 hours, shut in 45 min., IHP: 3836#, ISIP: 160#, IF: 78#, FF: 122#, FSIP: 144#, FHP: 3814#, fair blow at open, decreased in 25 min. to weak blow. Recovered 290 watery drill fluid. Bottom 90' very slightly gas cut.
- Top Sample: Analysis of fluid recovered, wt. 9.6, water loss 9.6, chloride, 700 ppm., pH 12.0. Chromatograph analysis in parts per million. C₁ 17,300, C₂ 4150, C₃ 4900, C₄ 4425, C₅ / 450.
- Bottom packer: wt. 9.5, water loss 1.6, chloride 600 ppm, pH 12.0, C₁ 29,000 C₂ 18,650, C₃ 23,000, C₄ 28,250, C₅ / 17,250
- DST #8 7629-7673, open 1 3/4 hours, IHP: 3857#, ISIP: 738#, in 45 min. IFP: 123#, FFP: 246#, FSIP: 352# in 30 min. FHP: 3809#, fair blow decreased to weak blow. Recovered 570 slightly gas cut mud.
- Top Sample: Analysis of fluid recovered, wt. 9.6, water loss 2.8, chloride 700 ppm. pH 12.4. Chromatograph analysis in parts per million. C₁ 66,600, C₂ 12,300, C₃ 11,000, C₄ 8,600, C₅ / 660.
- Middle sample: wt. 9.4, water loss 3.0, chloride 800, pH 12.4, C₁ 51,000, C₂ 26,600, C₃ 16,000, C₄ 51,300, C₅ / 3660.
- Bottom sample: wt. 9.3, water loss 2.6, chloride 800, pH 12.5. C₁ 112,300, C₂ 78,000, C₃ 101,300, C₄ 127,000, C₅ / 21,300.

CHRONOLOGICAL HISTORY

DATE	DEPTH	REMARKS
10/19/60	0	RURT
10/23	0	Finished RURT. Drld rat hole
10/24	43	Spudded 3:00 AM. Drld 12 $\frac{1}{4}$ " hole to 43'. Rmd 17-1/4" hole to 10'. Cemented w 15 Sax Calseal (For lost circ:n?) Waited 6 hrs. for CalSeal to set.
10/25	157	Drld up Cal Seal. Rmd 12 $\frac{1}{4}$ " hole to 17 $\frac{1}{4}$ " hole from 10' to 40'. Drld ahead w 12 $\frac{1}{4}$ " bit. 1/2 $^{\circ}$ @ 70'.
10/26	159	DP stuck while drlg @ 159. Backed off Kelly & washed over DP. Freed DP & tripped out for reamer. Rmd hole to 17 $\frac{1}{4}$ " from 40' to 103'.
10/27	191	Rmd 17 $\frac{1}{4}$ " hole to 157. 2-3/4 $^{\circ}$ @ 150. Drld 8-3/4" hole from 157 to 186. 2 $\frac{1}{4}$ " @ 172. Rmd 12 $\frac{1}{4}$ " hole from 157 to 186. Drld 8-3/4" hole from 186 to 191.
10/28	245	Drld 8-3/4" hole from 191 to 215. Rmd 12 $\frac{1}{4}$ " hole from 186 to 215. Rmd 17 $\frac{1}{4}$ " hole from 157 to 215. Drld 8-3/4" hole from 215 to 245.
10/29	279	3 $^{\circ}$ @ 245. Rmd 12 $\frac{1}{4}$ " hole from 215 to 248. Rmd. 17 $\frac{1}{4}$ " hole from 215 to 248. Drld 8-3/4" hole from 248 to 279. 2-3/4 $^{\circ}$ @ 279. Rmd 12 $\frac{1}{4}$ " hole from 248 to 277. Rmd 17 $\frac{1}{4}$ " hole from 248 to 277.
10/30	279	Ran 10 JTS 295.77' 13-3/8" 48# H-40 CSG w Shoe landed @ 278 KB Cemented w 200 Sax reg. plug dwn 6:15 AM. WOC.
11/1	320	WOC 34 hrs. drld 30' cement. Drld anead w 8-3/4" bit 2 $\frac{1}{2}$ $^{\circ}$ @ 315.
11/2	495	Drld 8-3/4" hole. 2 $\frac{1}{2}$ $^{\circ}$ @ 380
11/3	664	Drld 8-3/4" hole. 2 $\frac{1}{2}$ $^{\circ}$ @ 573. Mud wt 8.8 vis 40.
11/4	974	Drld 8-3/4" hole. 2 $\frac{1}{4}$ " @ 863. Mud wt. 9.0 vis 42.
11/5	1330	Drld 8-3/4" hole. 1-3/4 $^{\circ}$ @ 1211. Mud wt 9.0 vis 44.
11/6	1788	Drld 8-3/4" hole. 1 $\frac{1}{2}$ $^{\circ}$ @ 1544. Mud wt 9.3 vis 42
11/7	2125	Drld 8-3/4" hole. 1 $\frac{1}{4}$ $^{\circ}$ @ 1902.
11/8	2330	Drld 8-3/4" hole. 1 $\frac{1}{2}$ $^{\circ}$ @ 2210. Convtd to lime basemud
11/9	2593	Drld 8-3/4" hole. 1 $\frac{1}{2}$ $^{\circ}$ @ 2332. Mud wt 9.0 vis 39.
11/10	2720	Twisted off while drlg @ 2622. (DP parted @ 2545). Went in w overshot & recovered fish. Resmd drlg. 1 $\frac{1}{4}$ $^{\circ}$ @ 2594. Mud wt 9.1 vis 39 WL 14.1 FC 2 pH 12.5.
11/11	2899	Drld 8-3/4" hole. 1 $^{\circ}$ @ 2840. Mud wt 9.1 vis 41.
11/12	3101	Drld 8-3/4" hole. 1 $^{\circ}$ @ 3051. Rmd tight hole for 3hrs after trip. Condit'nd mud. Wt 9 vis 45 WL 2.4 FC 2.
11/13	3301	Drld 8-3/4" hole. 1 $\frac{1}{4}$ $^{\circ}$ @ 3206. Mud wt. 9.1 vis 42 WL 2.6
11/14	3452	Drld to 3434. Circ'd samples. Trpd & std cutting Core #1. Mud wt 9.1 vis 42.
11/15	3574	Core #1 (6 $\frac{1}{4}$ ") 3434-3481 (Wasatch). Cut & recd 47'- sand & shale. No shows. (Core analysis shwd Sw 70-87%). Rmd core hole & drld ahead.
11/16	3776	Drld 8-3/4" hole. Mud wt. 9.2 vis 44 WL 2.4
11/17	3940	Drld 8-3/4" hole.
11/18	4080	Drld 8-3/4" hole. 1-3/4 $^{\circ}$ @ 3984. Mud wt 9.4 vis 40 WL 2.1
11/19	4258	Drld 8-3/4" hole. 1 $\frac{1}{2}$ $^{\circ}$ @ 4184. Mud wt 9.4 vis 43 WL 2.7 Oil 8%
11/20	4456	Drld 8-3/4" hole. 1 $\frac{1}{2}$ $^{\circ}$ @ 4372. Mud wt 9.4 vis 43 WL 4.5 pH 12.3

<u>DATE</u>	<u>DEPTH</u>	<u>REMARKS</u>
11/21/60	4611	Drld 8-3/4" hole. 1 $\frac{1}{2}$ ^o @ 4570. Mud wt 9.3 vis 41 WL 2.5
11/22	4752	Drld 8-3/4" hole
11/23	4861	Drld 8-3/4" hole. Mud wt 9.5 vis 45 WL 3.2 pH 12.5
11/24	4967	Drld 8-3/4" hole. 1 ^o @ 4919. Mud wt 9.6 vis 42
11/25	5050	Drld 8-3/4" hole.
11/26	5154	Drld 8-3/4" hole. 1 ^o @ 5148. Mud wt 9.5 vis 42 WL 3.2
11/27	5202	Drld 8-3/4" hole. WO Schlum 6 hrs. Schlum checkd TD @ 5202 & logged IES from 5196 to 280.
11/28	5283	Drld 8-3/4" hole. 1 ^o @ 5269. Mud wt 9.5 vis 45 WL 2 FC 2 pH 12.5
11/29	5329	Drld to 5319. Started cutting core #2
11/30	5390	Core #2 (7-3/4" D) 5319-5356 (Paleocene) Cut 37' Rec'd 36' sand shale & siltstone - no shows. Rmd core hole & drld ahead.
12/1	5526	Drld 8-3/4" hole. Mud wt 9.5 vis 44 WL 1.8 FC 2 pH 12.5
12/2	5633	Drld 8-3/4" hole. Mud wt 9.6 vis 41 WL 1.6 pH 12.5
12/3	5716	Drld 8-3/4" hole. Mud wt 9.6 vis 42 WL 2
12/4	5816	Drld 8-3/4" hole. Mud wt 9.7 vis 42 WL 2.5 FC 2 pH 12.5
12/5	5896	Drld 8-3/4" hole. Mud wt 9.7 vis 40 WL 2.5 FC 2 pH 12.5 Trip out to DST. WO Tester 4 hrs.
12/6	5962	DST #1 5754-5774 (Mesaverde). Misrun-stradle packers failed. Tripped out & WOO. Went in w 8-3/4" bit & drld ahead.
12/7	6023	Drld to 5990. Condit'nd hole to log. Schlum checked TD @ 5990. Ran IES from 5984 to 4996, ML from 5989 to 4500, & SL from 5982 to 4500. Resumed drlg.
12/8	6144	Drld 8-3/4" hole. Mud wt. 9.6 vis 43
12/9	6159	Circ'd samples & condit'nd hole @ 6158 (Gas kick- 4 to 23 units). DST #2 6142-6158 (Mesaverde). ISI 45 min. TO 2 hrs FSI 45 min. Weak blow throughout No GTS. Rec'd 10' VSGCM ISIP 188 psi FP 62 psi FSIP 78 psi. Started cutting Core #3.
12/10	6213	Core #3 (7-3/4" D) 6158-6179 (Mesaverde) Cut 21'. Rec 20.4' sand & shale w fluor & cut in top foot. Rmd core hole & drld ahead. Mud wt 9.6 vis 43 WL 1.6
12/11	6300	Circ'd samples @ 6300 & pulled out to test. DST #3 6220 - 6300 (Mesaverde) ISI 45 min to 2 hrs. FSI 45 min Rec'd 350 muddy water ISIP 76 psi FP 76-107 psi FSIP 125 psi HP 3158 psi.
12/12	6368	Drld 8-3/4" hole. Circ'd samples @ 6325 & 6330 (Gas kick 10 to 40 units).
12/13	6451	Drld 8-3/4" hole. Circ'd samples @ 6400 (no kick) & @ 6450 (10 to 20 units). Mud wt 9.5 vis 43 WL 2.6 pH 12.5
12/14	6490	Drld 8-3/4" hole. 1 $\frac{1}{4}$ ^o @ 6486. Mud wt 9.8 vis 56 WL 2.5 pH 12.6 Tripped strung up 8 lines. Resumed drlg.
12/15	6551	Circ'd samples @ 6506 (Gas kick - 10 to 34 units) &

<u>DATE</u>	<u>DEPTH</u>	<u>REMARKS</u>
12/15/60	6551	Cont. @ 6520. DST #4 6447-6551 (Mesaverde). ISI 45 min TO 1 hr 55 min FSI 45 min. Rec'd 210' SGCM. ISIP 219 psi FP 94-172 psi FSIP 298 psi HP 3275 psi.
12/16	6684	Drld 8-3/4" hole. Mud wt 9.8 vis 52 WL 1.5 FP 2 pH 12. Circ'd samples 6684 (Gas kick - 20 to 63 units)
12/17/	6684	Tripped for DST Test tool failed Tripped for another tool. DST #5 6662-6684 (Mesaverde). ISI 45 min TO 1 hr FSI none. Rec'd 20' drlg mud ISIP 19 psi FP 6-10 psi HP 3447 psi.
12/18	6808	Circ'd samples @ 6782 (Gas kick - 22 to 70 units), & @ 6794 (15 to 54 units) & @ 6808. Tripped to core. Mud wt 9.3 vis 49 WL 1.7 pH 12.5
12/19	6858	Core #4 (7-3/4" D) 6808-6858 (Mesaverde) Cut 50' Rec'd 42' V.F.G. to M.G. sand, w shale break 6813- 6817.5 (6819-6824 on GR Log). Sand had fluor & cut 6808-6813 & 6838-6842 but appeared tight (confirmed by sonic log-less than 10% Por.) WOO 3 hrs.
12/20	6942	Rmd core hole & drld ahead. Mud wt 9.8 vis 53 WL 2.7
12/21	6993	Drld 8-3/4" hole Mud wt 9.8 vis 54 WL 2.6 1 1/2° @ 6990
12/22	7025	Drld 8-3/4" hole Rmd & washed 20' to bottom following trip @ 7007. Mud wt 9.8 vis 54 WL 1.9 FC 2 pH 12
12/23	7063	Drld 8-3/4" hole. Rmd 60' to bottom following trip @ 7042.
12/24	7105	Drld 8-3/4" hole 1-3/4° @ 7063. Mud wt 9.6 vis 52 WL 2.1 FC 2 pH 12
12/25	7145	Drld 8-3/4" hole.
12/26	7179	Drld 8-3/4" hole. 1 1/2° @ 7150
12/27	7208	Drld 8-3/4" hole. Circ'd samples @ 7198 (Gas kick - 12 to 140 units - coal). Laid down DC's & picked up 6 1/4" DC's following trip out @ 7208.
12/28	7246	Drld 8-3/4" hole. Mud wt 9.7 vis 51 WL 1.7 pH 12.5
12/29	7290	Circ'd samples @ 7256 (Gas kick - 30 to 85 units) & @ 7272. Started cutting Core #5.
12/30	7321	Core #5 (8-5/8" D) 7272-7299 (Mesaverde) Cut 27' Rec'd 24.6' Sand, shale & siltstone. Sand generally had good fluor & cut but was tight. Core #6 (8-5/8" D) 7299-7321 (Mesaverde). Cut & rec'd 22' sand & shale, w some of the sands having odor, fluor & cut but v.f.g. & tight.
12/31	7352	DST#6 7272-7321 (Mesaverde). Misrun - packers failed. Resumed coring.
1/1/61	7368	Core #7 (8-5/8" D) 7321 - 7352 (Mesaverde). Cut 31' Rec'd 28.6' shale & sand - w good odor, fluor & cut but v.f.g. & tight (Core depths evidently about 10' off. Sand in core 7341-7350 correlates w sand on IES log 7350-7364). Core # 8 (8-5/8" D) 7352-7360 (Mesaverde) Cut 8'. Rec'd 6' shale. Cored ahead.
1/2	7418	Core #9 (8-5/8" D) 7360-7383 (Mesaverde). Cut 23'. Rec'd 21' sand and shale. Sand had odor, fluor & cut but was tight. Rmd core hole & drld ahead. Mud wt 9.8 vis 58 WL 1.4 pH 12.1
1/3	7457	Drld 8-3/4" hole. 1 1/2° @ 7423. Rig repairs 7 hrs.

<u>DATE</u>	<u>DEPTH</u>	<u>REMARKS</u>
1/4/61	7532	Circ'd samples @ 7467 (Gas kick - 22 to 78 units-coal) & @ 7490. Mud wt 9.8 vis 56 WL 1.5 pH 12.5
1/5	7558	Drl'd 8-3/4" hole DST #7 7496-7558 (Mesaverde) ISI 45 min TO 1 hr 30 min FSI 45 min Fair initial blow - decreased to weak in 25 min. Rec'd 290' WCM - bottom 90' VSGC ISIP 160 psi FP 78 - 122 psi FSIP 144 psi HP 3814 psi.
1/6	7627	Drl'd 8-3/4" hole. Circ'd samples @ 7574 (Gas kick - 42 to 140 units - coal) Mud wt 9.7 vis 51 WL 1.7 FC 2 pH 12.5
1/7	7673	Drl'd 8-3/4" hole. DST#8 7629-7673 (Mesaverde) ISI 45 min to 1 hr. 45 min FSI 30 min. Fair initial blow - Decreased to weak. Rec'd 570' SGCM ISIP 733 psi FP 123-246 psi FSIP 352 psi HP 3809 psi.
1/8	7732	Drl'd 8-3/4" hole. Mud wt 9.8 vis 60 WL 1.7 FC 2 pH 12.5
1/9	7759	Drl'd 8-3/4" hole
1/10	7791	Depth correction 7759 to 7763. Drl'd ahead. Dropped slip handle in hole while tripping.
1/11	7791	Went in w junk sub & milled on slip handle. Tripped out. Schlum checked TD @ 7798 (Drl'r 7791) & logged IES 7792 to 5984 & sonic 7794 to 5982.
1/12	7828	Drl'd 8-3/4" hole. Mud wt 9.8 vis 65 WL 1.4 pH 12.5 2° @ 7818
1/13	7849	Drl'd 8-3/4" hole. Circ'd samples @ 7849 before tripping for new bit.
1/14	7880	Drl'd 8-3/4" hole. Mud wt 9.8 vis 60 WL 1.8 FC 2 pH 12
1/15	7918	Drl'd 8-3/4" hole
1/16	7953	Drl'd 8-3/4" hole. Mud wt 9.7 vis 54 WL 1.8 pH 12
1/17	7973	Twisted off while drlg @ 7973. Left 13 DC's in hole. Went in w overshot & recovered fish.
1/18	8022	Drl'd 8-3/4" hole. Mud wt 9.8 vis 60 WL 1.5 FC 2 pH 12
1/19	8074	Drl'd 8-3/4" hole.
1/20	8109	Condit'nd hole for test (Gas kick - 13 to 70 units) DST #9 8091-8109 (Emery?) ISI 45 min TO 1 Hr 45 min FSI 45 min. GTS 4 min. Flow rate 9 MCF/D. Rec'd 510' GCM. ISIP 1858 psi FP 80-205 psi FSIP 1410 psi
1/21	8147	Drl'd 8-3/4" hole. Condit'nd hole for test based on Gas kicks of 50 units.
1/22	8150	DST #10 8110-8147 (Emery?) ISI 45 min (?) TO 2 hrs FSI 45 min (?) Fair initial blow - decreased to weak. Rec'd 200' SGCM. ISIP 214 psi FP 92-184 psi FSIP 245 psi HP 4150 psi (Higher FSIP indicates partial formation block - but press's also indicate tight sand.) Drl'd ahead.
1/23	8188	Drl'd 8-3/4" hole. 1 1/4° @ 8188. Mud wt 9.7 vis 64 WL 1.7 pH 12.5. Tripped to core.
1/24	8220	Core #10 (8-5/8" D) 8188-8210 (Mancos ?) Cut 22' Rec 19.5' sand & shale. (Correlate w IES 8196-8218 & sands are tight). Rmd & drld ahead.
1/25	8260	Drl'd 8-3/4" hole. Mud wt 9.8 vis 64 WL 2.1 pH 12
1/26	8338	Drl'd 8-3/4" hole
1/27	8365	Twisted off while drlg @ 8346, leaving 13 DC's in hole. Went in w overshot & recov'd fish. Drl'd ahead.

<u>DATE</u>	<u>DEPTH</u>	<u>REMARKS</u>
1/28/61	8416	Drl'd 8-3/4" hole. Mud wt 9.9 vis 63 WL 1.9 FC 1 pH 12.
1/29	8492	Drl'd 8-3/4" hole.
1/30	8514	Drl'd to TD 8514. Condit'nd hole to log. Schlum checked TD @ 8522. Ran IES 8516-7792, GRN 8520-5000 & sonic 8518-7794.
1/31	8514	Conditioned hole to run 7" CSG. Ran 265 JTS 8438.66' 7" OD N-80 (From Bot. up: 64 JTS 1974.22' 26#, 167 JTS 5400.70' 23#, 34 JTS 1063.74' 26#) LT & C 8-R CSG. Landed shoe @ 8437 KB w float collar @ 8398KB. Cemented w 1200 sax 50-50 pos. / 2% gel. Good returns throughout. Plug down 9:30 PM WOC.
2/1	8398	WOC 15 hrs. set slips & cut off 7" CSG. Temp. survey showed top of cement @ 5100'. Rig released 4:00 PM

COMPLETION

PBD

4/13/61		Rigging up - laying lines-mixed mud and started in hole w TBG.
4/14/	8399	Finished picking up & rng TBG. Condit'd mud in tank. Found float collar @ 8399. Condition'd invermul mud.
4/15	8399	Displaced 200 bbls mud down TBG. Started mixing 2nd batch - had to order more mud. Ran out of diesel for rig motors. Press'd CSG w 2200 psi Ok. Finished mixing mud. Finished displacing water out of hole. Started out with TBG @ 10 PM.
4/16	8399	Out of hole 3 AM. Perf'd 3 Thor jets / ft. 8188-8194. Lost stand-off bar when jets went off. Did not fish. Went in to perf 8120-8108. Jets did not fire. Pulled out to inspect string. Re- wired. Went in to perf. as above. Could not correlate collars. Pulled out to rezero. at 1600' found line overrun & kinked badly. Cut off kink & finished pulling out. Perf'd 3 Thor jets/ft. 8096-8120. Ran junk catcher & ring gauge to 8392. Started in w TBG.
4/17	8399	Finished running tbg. Set BP @ 8200. Circ'd diesel down tbg. Set Pkr @ 8150. Perf's would not break down @ 6000 psi. Reset pkr @ 8050. Press'd to 6000 on perfs 8096-8120. Held 5 min. then bled back to 2700 psi. Pumped 8 BPM @ 5500 w 2 trucks no brkdn. Fraced with 8000 gal. petroljel, 6000 # 20-40 sand, .05#/gal. adomite, 10 gal. freflo in spearhead. Initial pump press 5400 min 5300.8 BPM Screened out at 6000 psi. Flowed well back and tried to resume flush. Screened out again. SI 3 hrs.

<u>DATE</u>	<u>DEPTH</u>	<u>REMARKS</u>
4/18/61	8399	From mid to 7 AM flowed 350(?) bbls back to frac tanks. Flowing in heads. Gauged 350 MCF/D 10 bbls fluid/hr. (Distillate & Diesel) after recoving all frac fluid. Stop cocking. Flow 1/2 hr. SI-1 hr. 3 hr. SI press 1500 psi. Stop cocking. Pumped down tbg to kill well. Started in w tbg to clean out to B.P. @ 8200. Had 47' feet sand fill up. Cleaned out to 8196. Circulated.
4/19/	8399	Circulated hole until 9 AM. Packer dragging even after hole clean. Could not set packer. Tripped to inspect same. Went in w bit to clean up hole & condition mud.
4/20	8399	Went in w bit & cleaned out to 8196. Ran in & set PKR @ 8150 after spotting 2 bbls mud acid at perfs 8188-8196. BDP 5600 - 4200 psi w 1 truck. Pumped 30 bbls petrojel & 900# sand (8 BPM & @ 5350 psi for 4 min.) before zone communicated w upper perfs- got returns on annulus. Pulled pckr & reset @8085. Fraced both zones 8096-8120 & 8188-8196 w 15,000 gal Petrojel 4,000# (3/4# 1 bbl) 20-40 sand. 1100# (0.10# /bbl) 12-20 hulls. 3 bbls mud acid & 10 gal. freflo ahead, 10 gal freflow behind. Initial pump press 5100, final & max 5650, avrg. inj rate 9 BPM. Job comp. 12:58 PM. Instantaneous press. 2900 psi. SI 6 hrs. - 2200 psi. Flowed load & frac dies.
4/21	8399	Recovered 180 bbls (of 474 used) at 8:00 AM. Started stop cocking. By midnight had recovered 210 bbls.
4/22	8399	8 AM Total rec 223 bbls SI press. 3 hrs. 625 psi. Made 32 bbls after 3 hr. SI. Gauged 750 MCF/D after flowin 2 hrs. Still cleaning up. Filled hole w mud. Circ'd & condit'd hole. Unseated PKR & lowered tbg. Found 4' loose sand on top of plug. Picked up plug & tripped out.
4/23	8399	Pulled tbg, PKR & B. P. Perf'd 3 Thor jets/ft 5792-5810 & 5754-5767. Ran ring gauge to 8340'. Retravl BP @ 5840. Spotted 3 bbls acid on perfs 5792-5810. Set per @ 5780. Fraced w 22,000 gal Petrojel .05#/gal adomite, 10,000# 20-40 sand 1000# 12-20 hulls 10 gal freflo ahead - 10 behind. Pump press. 4800-4900-5000-5150-5050-5150. Inj. rate 10 BPM. Job compl. 5:10 PM Inst. press. 2700 psi. SI 1 hr. Started flowing back.
4/24	5840	8 AM. Flowed back 65 bbls. out of 610 used in frac Swbd from 10 AM to 5 PM. Total to tank 140 bbls Got a slug of invermul then petrojel. Flowing back. Thought pkr had given way. Shut well in. Opened 11 PM - tbg press 750 psi. bled down & started flowing 8.7# mud - looked like gyp base or lime base. - not inver.
4/25	5840	

<u>DATE</u>	<u>DEPTH</u>	<u>REMARKS</u>
4/26/61	5840	By 2 AM making consid. gas between heads. SI @ 4:30 AM to build up press. 6:30 press 425 psi opened up - made some mud as above followed by water & gas. Gas flows in heads of 1-2 MMCF but did not average that. Started swabbing 8:00 AM Water incr. evidently comm. below perfs.-not above. Swb'd water w gas flowing strong following each pull. Swbd dry @ 7:00 PM.
4/27	5780	Gas decreased also. SI to build up press. Opened well @ 500 psi. Flowed water & gas. Squeezed perfs (5792-5810) w 100 sax reg. Final staging press. 5900 psi. In place 7:43 AM. reversed, out 7 sax cement. Left cem. @ 5780'. Spotted 3 bbls. acid on perfs @ 5754-5767. Set pkr @ 5740. Fracec w 22,000 gal. Petrojel, 10,000# 20-40 sand 1000# 12-20 hulls .05#/gal adomite, 10 gal freflo ahead 10 behind. Inj. rate 9.5 BPM, pump press 5400-5750 Job complete 1:22 PM. Inst. press 2750. SI-1½ hrs press. 1400 psi. Opened well. Bled back to zero. Swab'd well down to 5300' - hit bridge. Reverse circ'd 1½ hrs.
4/28	5780	Swd mud out of tbg. Tbg swbd down to 5700. Swbd tbg dry - small show of gas. SI 2 hrs. no press- no entry-no gas- pulled tbg & PKR.
4/29	5840	Went in w 6-1/8" bit. Drld cement from 5780 to 5810. Bit fell free 5810-5835. tripped to run tools to retrieve plug.
4/30	5840	Could not retrieve plug. tripped tbg. Cement in tools. Went in w new tools. Still could not retrieve plug. Came out. Ran impression block & magnet impression block indicated retrieving stem sticking up in center of hole. Did not pickup anything w magnet.
5/1	5840	Ran in with Model "H" running tool. Washed down 1'. Could not retrieve plug. Tripped for bit. Drilled 2' cement & washed out 4' sand. Pushed plug down 10'. Tripped for running tool. Lacked three joints of being on bottom when tbg unloaded.
5/2	5900	Mixed 9.4# mud. Filled tbg, circ'd & conditioned mud. Finished going in-picked up B.P. - tripped out. Shot 4 perfo jets 5919-5920 for WSO. Set Baker Model "NC" BP @ 5930. Went in w tbg & set Baker Model "R" PKR @ 5900. Squeezed w 100 sx reg. max squ. press 5400 psi - broke & could not get press after that. Had trouble killing well after squeeze. Started out w tbg .
5/3	5892	Finished pulling tbg. Checked cement top @ 5900 wire line meas. Set Baker Model "NC" BP @ 5892. Cut 4 horiz. jet notches 5877-5878, 5847-5848, 5800-5801. Went in with Baker full bore PKR & retrievable BP. Had trouble setting packer. Spotted 12 bbls. mud acid across notches. Broke

<u>DATE</u>	<u>DEPTH</u>	<u>REMARKS</u>
5/3	5892	Cont. down two lower notches (5843 & 5873) w Pkr @ 5835 pumped 3 BPM @ 3000 psi. Broke down top (5800) notch pumping down annulus @ 8 BPM - 3200 psi. Reverse circ'd - condit'nd hole. Had trouble killing well.
5/4	5892	Tripped tbg to remove Pkr. Went in w running tool to retrieve BP after frac. Land'd Tbg @ 5865. Hooked up 4 Allison's to frac down tbg & annulus. Fraced w 32,000 gal petrojel 20,000# 20-40 sand (0.9#/gal), 1450# 12-20 hulls 10 gal freflo ahead - 10 behind, 0.05#/gal adomite. Displaced petrojel & sand down annulus & up tbg. Started petrojel & sand out notches @ 1:45 PM. Inj. press 3500-3650-3600. Inj. rate 24 BPM. Flush'd w 225 bbls. diesel. Flush away 2:24 PM. Inst. press 2200. Standing press after 2 hrs 2100 psi. SI
5/5	5892	Press 3 AM 925 psi opened well to tank. Flowing back @ 75 psi. Flowed back 62 bbls. in 16 hrs.
5/6	5892	Flowed back total of 90 bbls. in 30 hrs. Started Swb'g (Total used in frac 790).
5/7	5892	Total recov. 12 Noon 310 bbls started getting water - Swbd to burn pit. Drained water from tank. Small amount of gas w each pull. Swb'g from 5400'. F. L. staying @ 4000'.
5/8	5892	Swb'd to tank 138 bbls. Drained 62 bbls water. Tripped tbg to run Pkr.
5/9	5892	Could not set Model "R" pkr. Tripped tbg. Ran retrievomatic. Set @ 5868 to swab test notch @ 5878. F. L. @ 2000' 1st pull all diesel. Swab on down. 45 min fill up 400' - 1½ hr. fill up 800' All water. Filled annulus w mud. Did not communicate w upper notches. Opened circulating ports & finished circ'g hole w invermul. Unseated pkr. Could not wash down over bridge plug. Tripped for bit.
5/10	5892	Drld 6" cement @ 5879. Washed out 5' sand. Drld 3' cement. Pushed plug 4' to TD @ 5892. Circ'd 3/4 hr. Tripped to pick up Model "H" running tool & retrievomatic pkr. Picked up BP @ 5892. Set same @ 5858. Set retrievomatic pkr @ 5838 to test notch @ 5848. Swbd tbg down. Pulled swab every 2 hrs. 1000' fill up. Water w small amount of gas ahead of swab.
5/11	5892	Unseated pkr & picked up BP @ 5858. Pulled up & set BP @ 5812. Set pkr @ 5780 to test notch @ 5800. Swb'd invermul out of tbg. Swbd tbg down-zone making water. Swbd continuously w 700' fill up between swabs. SI 3½ hrs. F.L. @ 1500' Swab'd down. Pulled swab once an hour. 1500' fill up between swabs. Started getting show of gas ahead of & w water @ 5 PM.

<u>DATE</u>	<u>DEPTH</u>	<u>REMARKS</u>
5/12/61	5892	Started swbg from 4700' @ 3 AM because of frayed line @ 4800'. Still had 1500' Fu/hr. @ that depth, but less gas. Spliced line. Reset BP @ 5816 & pkr @ 5780. Swb'd 2 loads of water then mud. Set 5000# more on pkr. Pumped down annulus. Had returns (Communication or pkr leak.) Reset pkr - still had returns. Pulled one single & set pkr @ 5748. Press'd on ann. w 500 psi. No communication - pkr o.k. Swbd tbg down to test notch @ 5800 & perf's 5754-5767.
5/13/	5892	One hour fill up 2000'. Swb'd water. Gas increased but erratic. Lowered tbg to pick up BP @ 5816 & reset @ 5780. Picked up BP & reset to check if it was on. Could not pick up BP after 1st set. Tripped tbg for inspection. Had BP on but could not set because die from hydraulic tbg tongs had wedged in running tool & stuck fishing neck.
5/14	5892	Went in & set BP @ 5780 & pkr @ 5748. Swab'd down to test perfs 5754-5767. Pulled swab every two hrs. 800' fill up w very small amount of gas w each run.
5/15	5892	Swabing. 500' water fill up w small increase in gas. TSTM. Swb'd total of 36 hrs. Picked up BP & pulled tbg.
5/16	5892	Went in w Model R pkr to squeeze Bot. notch. Had communication w pkr set between notches & w pkr set above notches & perf's indicating leak in tbg or pkr not holding. Tripped to look @ pkr. Appeared rubber packoff had not expanded. Ran retrievomatic & set @ 5748. Swab'd all zones while waiting on McCullough. 1 hr. fill up 1000'. More gas than before.
5/17	5892	Swabing. No change. McC ran iso tope tracer survey - indicated fluid was coming from upper perfs w possible communication down outside CSG below perfs 5792-5810, checked TD @ 5880. Set retrievomatic @ 5865. Press'd on notch @ 5878. No communication. Broke down @ 5000 psi, pumped 10 bbls water away @ 2800 psi. Pulled one swab from 1500'. Well unloaded, flowing @ approx. 5 MMCF.
5/18	5892	Flowing gas @ 500 MCF rate cleaning up - no water. SI to buildup pressure & unload fluid. Flowed diesel, Drlg mud & water. Max. build up 1100 psi in 3 hrs. Started stop cocking - 1/2 hr. flow - 1 1/2 hrs. SI. Fluid predominately milky water w some distillate.

<u>DATE</u>	<u>DEPTH</u>	<u>REMARKS</u>
5/19/61	5892	Stop cocking @ above. Max. build up in 1½ hrs 610 psi. Water appeared to be decreasing but erratic. Flowed & cleaned up by stop cocking. Ran swab once. No fluid. Conditioned mud & displaced hole w same.
5/20	5892	Circ'd mud 2 hrs. to remove gas. Tripped tbg. Picked up retrievable BP & Model R Pkr. Set BP @ 5865 & pkr @ 5838 to check notch @ 5848. Displc'd mud out of tbg w water. Press'd to 3000 psi on tbg. No communication. Press'd to 3750 psi - notch broke down to 2600. Pumped 20 bbls water away 3600 - 3450 - 3500 no communication. Rigged up to swab. Swabbed tbg dry. Very weak blow of gas. Filled tbg w water & pumped out notch. Initial pump pressure 3700. Final pump press 3575. Press dropped in a series c of small breaks while pumping. Pumped 35 bbls. water out notch @ 5848. Swab'd tbg down. Started making small amount of gas. Sl 1½ hr. to build up press & clean up. Tp 350. Flowed gas w very little fluid.
5/21	5892	Stop cocked as above. Pulled swab @ 3 AM & 6 AM No fluid. At 9 AM had approx. 3 bbls thin invermul & water. Gas & press-build-up decreasing slightly. Max build up in 2 hrs. 300 psi. Went in 1 jt & picked up BP @ 5865. Set BP @ 5838 & pkr @ 5780 to test perfs 5792-5810. Swb'd tbg down. Filled up 3000' w invermul. Closed rams & swab'd again. Had vacuum on annulus-indicating communication w perfs @ 5754-5767. (or pkr leak) Also had fair blow of gas. Pulled up & set @ 5720 above all perfs. Had communication as above indicating pkr not holding. Reset several times until unloading ports closed. Pulled one swab well unloaded making gas, invermul & water.
5/22	5780	Unseated pkr & reset @ 5780. Again had trouble closing unloading ports. Pulled two swabs-well unloaded water & flowed gas for 1/2 hr then died to weak blow. Filled tbg w water & press'd to 3000 psi. Csg press rose slowly to 1800 psi indicating communication. Went down. Picked up BP & tripped out w tbg. Set Baker "NC" BP @ 5820 & Guiberson WME BP @ 5780. Went in w tbg & set Model R @ 5650. Displaced mud out of tbg.
5/23	5780	Squeezed perfs 5754-5767 w 100 sax reg cem. Locked up @ 5000 psi after 6 stages. Cem in place 2:29 AM. WOC reverse circ'd water out of tbg. Mud in annulus badly gas cut. Circ'd & condit'd mud. Tripped out w tbg.
5/24	5780	WOC 38 hrs. Went in w OWV. Found top of cement @ 5695. Drld cem to 5770.
5/25	5892	Drld BP's @ 5780 & 5820 - no cement between plugs. Cleaned out to 5892. Mud badly gas cut

<u>DATE</u>	<u>DEPTH</u>	<u>REMARKS</u>
5/25/61 5/26	5892 5892	Cont. below 2nd plugs. Condit'd & circ'd mud. Tripped out to pick up Model R Pkr. Ran in-tagged bottom @ 5892. Pulled up 50'. WO Daylite to frac. Ran tbg to 5887. Pumped 40 bbls salt water down tbg (Cap. 34 bbls) Pulled up & set pkr @ 5866. Fraced w 25,000 gal water 850# J 101 (fluid loss) 50# J 100 (Polymer) 500# J 99 (Jelling Agent) 20 gal 15% acid, 42 sax Ca-Cl ₂ 9000# 20-40 sand (3/4#/gal.) 2000# 12-20 hulls (0.15#/gal) BDP 4400-4150, min. inj press 3950 final 4250. Avrg inj rate 14 BPM Flush away 1:33 PM Inst. press 2650, SI to 8 PM Press 1025 psi. Opened to 1" choke. Flowed water & bled to zero press. Unloaded & flowed gas 8:20 died to weak flow of gas 8:40 PM. Started stop cocking 9 PM.
5/27	5892	Stop cocking - 1/2 hr. on 1/2 hr. off. Unloading water w each flow. Max buildup 400 psi in 3/4 hr. Started flowing well once every 2 hrs. Max. build up 500 psi. Unloaded frac water w each flow. Gas flowed following water @ 6 - 7 MMCF - died to 500 MCF in 1/2 hr.
5/28	5892	Increased SI period to 3 hrs several times-max build up 850 psi. Stop cocked as above - no change in water or gas.
5/29	5892	Bled well down @ 3 AM. CP 250 psi. Condit'd mud. Unseated pkr - Let well die. Set pkr @ 5775. CSG & tbg dead. Pulled swab from 2000' well unloaded mud & water & died.
5/30	5892	SI 2 hrs. Press 350. Bled down - pulled swab-unloaded water & died. SI 1 hr. press 200 psi Bled down - did not pull swab-unloaded by itself in 1 1/2 hrs. Flowed 8-4 MMCF for 1/2 hr. SI 1 hr. continued stopcocking w/o pulling swab. Took 1 1/2 - 2 hrs. to unload w same flow rate. Well unloading more water-apparently from upper zones-but making more gas. Filled tbg w mud. Circulated & conditd hole.
5/31	5892	Tripped tbg. Picked up retrievable BP & ran in. Set BP @ 5855 & pkr @ 5840 to test notch @ 5848. Swb'd tbg dry w show of gas in last pull. SI to build up press. Press'd to 550 in 2 hrs. Flowed down. In successive 2 hr. SI's built up to 400, 200 & 200 psi. Ran swab. Recd 200' watery invermul. Went in - picked up BP & set @ 5840. Set pkr @ 5780 to test perfs 5792-5810. Swbd invermul out of tbg.

<u>DATE</u>	<u>DEPTH</u>	<u>REMARKS</u>
6/1/61	5892	Swabd water w strong blow of gas. SI 1 hr. - built up to 500 psi. Would not unload. Continued swb'g & flowing gas & water. Started stop cocking SI 1 hr. Flow $\frac{1}{2}$ hr. S.I press's started out @ 250 - dropped to 125. Would not unload. Swb'd every 3rd flow period. FL @ 3000'. Water w some dist.
6/2	5892	Swb'd tbg down & SI 2 hrs. - press 450. Then 1 hr SI pref's 250. Would not unload. FL standing @ 1000' after 6 hrs. Swb'd down. Water w small amt dist. SI 3 hrs. - press 550. Would not unload. Swbd down & filled hole w invermul. Went down to pick up BP. Could not retrieve. Tripped out. Ran McCul short-catch overshot. Had trouble unseating BP - would go down but not up. Hanging up & dragging all the way out.
6/3	5930	Had BP to the surf 3 AM. Hung up below BOP. Had spider nut on top of MCC's skirt. Fished nut out w wire & surfaced BP. Went in w security M-4N bit. Drl'd BP @ 5892, cement from 5900 to 5920 & BP @ 5930.
6/4	8399	Lower zone unloaded mud in annulus. SI mixed mud & killed well. Went on to bottom. Found fill up @ 8220. Cleaned out to 8399. Circ'd 4 hr
6/5	8399	Broached tbg w sand line to 8275. Started out w tbg but could not pull-hanging up & dragging when pump shut down. Raised vis from 65 - 95. Pulled six singles-still hanging up - would go down but not up. After pulling 22 singles, tbg came free. Pulled out of hole. PBD 8378 sand line meas. Ran 262 jts 2-7/8" EUE 8RJ-55 tbg
6/6	8378	Landed tbg @ 8165 KB w 2' perfs nipple on bottom. Model R per @ 5898 w 2' pup @ 5896 & side door choke @ 5894. Landed donut w 15,000# on pkr. Removed BOP. Flanged up Xmas tree. Swab'd tbg dry to 5800. Fluid & gas started coming in-mud, a little distillate & a little water. Swab stopper @ 5890. Ran sinker bar to 8100 - fell free. (Restriction in side door choke stopp'd swab)
6/7	8378	Swb'd invermul w some gas. Fluid level staying between 3000' & 4000'.
6/8	8378	Swbd invermul-water & gas increasing. 600 psi on Csg. SI 1 hr. to build up press 500 psi. Started unloading by itself @ noon. Would not unload at 4 PM. Ran swb to 5800. Swbd dry. Upper perfs plugged. Ran 2" swab to 8000' to stir up lower zone. Pumped salt water down annulus to clearperfs.
6/9	8378	Resumed swbg, lowered fluid level from 2000' to 4000'. Recovd water, a little invermul & increasing amnts of distillate. Line parted in old splice 4800' above swab. Rigged up to kill well with salt water. Annulus unloaded while installing BOP.

SAMPLE DATA

280-290	Low grade oil shale, gray to dark gray, mica, slightly calc., pyrite (or marcositic).
290-300	Few pieces of saturated limestone, sucrosic, brown.
300-310	As above, dark gray, richer in organic material.
310-320	As above, gray.
320-330	Siltstone to sandstone, v.f.g., light gray to tan, mica, slightly calc., few pieces with coatings of hydrocarbon.
330-340	Shale, gray to dark gray, as above.
340-350	Shale, brown to gray, slightly calc., organic.
350-360	Siltstone, gray to red-brown, mica grades to shale as above.
360-370	Shale, red-brown as above with streaks dolomite, light gray, sucrosic.
380-390	Shale, gray to dark gray, organic, mica.
390-400	As above.
400-410	Shale brown to gray, sample contain with cement.
410-420	Shale as above, with fragments of pink, brown colorless quartz, some cemented with white, slightly calc., material.
420-430	Shale, brown and gray, as above, organic.
430-440	Shale as above, some siltstone, light gray.
440-450	Siltstone, light gray, tan, calc, shale gray, silty mica.
450-460	Limestone, tan, dnse.
460-470	Shale tan to brown, oil stain, dull fluorescense, faint cut.
470-480	Shale, dark brown, organic (low grade oil shale).
480-490	Shale, as above.
490-500	As above, mica, slightly calc., pyrite.
500-510	Shale, dark brown to tan, organic, calc.

510-520 Shale as above.

520-530 Shale, brown, organic, slightly calc.

530-540 Siltstone, tan, calc., gold fluorescence.

540-550 Shale, dark brown, organic (oil shale).

550-560 Sandstone, dark brown, stained with dead oil, no fluorescence.

560-570 Shale, gray to brown, mica pyrite.

570-580 As above.

580-590 Shale, dark brown, organic, with sandstone dark brown, dead oil stain.

590-600 Shale, gray to tan, mica.

600-610 Limestone, tan, shale black, mica and sandstone, light gray, interbedded.

610-620 Limestone, tan to brown.

620-630 Limestone, tan to brown, streaked with sandstone, brown, v.f.g.

630-640 Shale, brown, dark brown, gray, mica.

640-650 Limestone, tan, brown, streaked oolitic gray limestone, streaked with sandstone, v.f.g., light gray.

650-660 Sandstone, porous, fine grain, with spotty dead oil stains, calc.

660-670 Sand, v.f.g., gray, grades to siltstone, pyrite.

670-680 Shale, light gray to tan, slightly calc.

680-690 Shale as above with silty streaks.

690-700 Shale as above, light gray to green gray.

700-710 Shale, as above with silty streaks.

710-720 Shale, green gray, waxy.

720-730 Shale, as above with sand, v.f.g., green-gray, silty.

730-740 Sandstone, fine, loose, quartz grains, clean.

740-750 Sandstone, as above, grade v.f. to siltstone.

750-760 Shale, green gray to tan, waxy.

760-770 Siltstone, gray to green gray.

770-780 Interbedded shale, siltstone, v.f.g., sandstone as above.

780-820 Limestone, white, verty soft, porous, chalky.

820-830 Siltstone, gray to green gray, mica grades to pyrite sandstone.

830-840 Sandstone, v.f.g., light gray, pyrite.

840-850 Limestone, light gray to tan, chalky.

850-860 Sandstone, light tan, v.f.g., tight.

860-870 Siltstone, light tan to gray, mica and green gray shale, waxy.

870-880 Limestone, tan, chalky.

880-890 Sandstone, fine, clean, green gray siltstone.

890-900 As above.

910-930 Limestone, tan chalky.

920-930 Sandstone, brown, v.f.g., calc.,

930-940 Shale, brown to gray, limestone, tan, as above.

940-950 Sandstone, v.f.g., tan, calc.

950-960 Shale, green gray.

960-970 Limestone, chalky, tan, highly effervescent in 10% HCl.

970-980 Shale, brown, mica, to green gray.

980-990 As above, streaks of shale, dark brown, organic.

990-1000 Sandstone, gray to brown, v.f.g.,

1000-1010 Shale, gray to brown, v.f.g.

1010-1020 Limestone, gray to tan.

1020-1030 Shale, green gray, mica.

1030-1040 Sandstone, v.f.g., brown, limestone, tan to brown.

1040-1050 Shale, green-gray.

1050-1060 Limestone, tan to brown.

1060-1070 Limestone, tan, chalky.

1070-1080 Sandstone, tan, v.f.g., sub red.

1080-1090 Interbedded limestone, sandstone, shale as above.

1090-1100 As above.

1100-1110 Sandstone, v.f.g., clean.

1110-1120 As above

1120-1130 Sandstone as above, spotty dead oil stain, pyrite, streaked with dark brown shale, organic.

1130-1140 Limestone, tan to brown, streaked gray and brown shale.

1140-1170 As above.

1170-1190 Sandstone, v.f.g., tan.

1190-1200 Siltstone, gray to green-gray, mica.

1200-1210 As above with green-gray shale, mica.

1210-1220 As above with thin bed oolitic limestone.

1220-1230 Shale, red-brown, green gray, gray and brown varigations.

1230-1240 Sandstone, silty with spotty dead oil stain.

1240-1250 As above.

1250-1260 Siltstone, brown to gray, mica.

1260-1270 Shale, red brown.

1270-1280 Siltstone, green-gray, sandstone, silty calc, with spotty dead oil stains.

1280-1290 Shale, red-brown.

1290-1300 Siltstone, sandy, light gray to green-gray, grades to v.f.g., sandstone calc.

1300-1310 Sandstone, v.f.g., light gray, no porosity, silty.

1310-1320 Shale, green-gray, mica.

1320-1330 Sandstone, v.f.g., light gray, calc. cement, S-R mica, pyrite, fria.

1330-1360 As above.

1360-1370 Shale, green-gray to gray.

1370-1380 Shale as above.

1380-1390 Shale varigated.

1390-1400 As above.

1400-1410 Sandstone, f.g. to v.f.g., with streaks of siltstone, mica, pyrite, light gray.

1410-1440 Interbedded varigated shale and siltstone and sandstone as above.

1440-1450 Sandstone, v.f.g., light gray.

1450-1460 Sandstone, v.f.g., light gray, fria.

1460-1470 Shale, varigated, brown, green-gray, red-brown, light gray.

1470-1490 As above.

1490-1500 Siltstone, calc., light gray.

1500-1510 Shale, varigated as above.

1510-1520 Shale, red-brown, with streaks of siltstone as above.

1520-1530 Shale, red-brown, siltstone, red-brown mica.

1530-1570 Shale, varigated as above.

1570-1580 Siltstone, gray to green-gray mica, sandy.

1580-1590 Shale, dark gray, mica.

1590-1600 As above with scattered pieces of gilsonite.

1600-1610 Shale, gray to dark gray, with streaks of v.f.g.

1610-1620 Sandstone, light gray, calc.

1620-1630 Sandstone, light gray, S-R, fg. to v.f.g., spotty dead oil stain.

1630-1640 Siltstone, green-gray, mica.

1640-1650 Shale, green gray, mica.

1650-1670 Shale, brown to gray, mica.

1670-1680 Sandstone, light gray, fine, porous, fria, angular to sub-rounded, calc. cement.

1680-1690 Sandstone as above.

1690-1700 Shale, green-gray to gray, mica.

1700-1710 Sandstone, fine fria, light gray, slightly calc, sub-R, porous.

1710-1720 Shale, gray to brown mica.

1720-1730 Siltstone, light gray, grades to v.f.g. sandstone.

1730-1740 Sandstone, light gray, v.f.g., red shale, mica.

1740-1750 As above, few pieces gray siltstone stained with dead oil.

1750-1760 Sandstone, v.f.g., light gray, calc., tight pyrite.

1760-1770 Siltstone, gray, slightly calc mica.

1770-1780 Sandstone, v.f.g. to f.g., buff to light gray, calc., tight, pyrite.

1780-1790 Shale, green-gray to gray with limestone, san, micro crystalline

1790-1800 Shale as above.

1800-1810 Limestone, dolomite, tan to light gray.

1810-1820 Shale, brown to red-brown, mica.

1920-1840 Sandstone, v.f.g., buff to light gray, slightly calc., dead oil, pyrite.

1840-1850 As above with streaks of v.f.g. tight sandstone.

1850-1860 As above.

1860-1870 Shale, red-brown, to brown.

1870-1890 As above, red-brown to red.

1890-1900 Shale, gray to dark gray.

1900-1910 Shale, gray, mica slightly calc., streaks of sandstone, v.f.g., silty and tight.

1910-1920 Shale as above with streaks of light gray limestone and sandstone as above.

1920-1930 Limestone, light gray, chalky.

1930-1940 Interbedded limestone, shale, siltstone, and v.f.g. sandstone as above.

1940-1950 Shale, red brown, mica.

1950-1960 Sandstone, light gray, v.f.g., calc., tight.

1960-1970 Shale, gray, slightly calc. with sandstone as above.

1970-1980 Shale, gray to brown, slightly calc.

1980-1990 Interbedded sandstone and shale as above.

1990-2000 Shale, light gray, tan, slightly calc., silty.

2000-2010 Shale, brown to red brown, gray.

2010-2020 Sandstone, light gray, v.f.g. to f.g., tight, slightly calc.

2020-2030 As above, with interbedded with varigated shales.

2030-2040 Siltstone, light gray, calc.

2040-2050 Sandstone, light gray, f.g., fria, porous with dead oil stain.

2050-2060 Sandstone, light gray to brown, grades to siltstone, and brown to gray shale.

2060-2070 Shale, varigated, gray, brown, red, slightly calc.

2070-2080 Shale, varigated, as above with scatted loowe med., clear, quartz grains.

2080-2090 Sandstone, med., unconsol, sub angular to S-R, clear quartz grains.

2090-2100 Sandstone as above.

2100-2110 Shale, varigated with siltstone, tan to light gray, slightly calc.

2110-2120 As above

2120-2130 Shale, dark gray, calc.

2130-2140 As above.

2140-2150 Shale dark gray as above with streaks of limestone, tan, dse.

2150-2160 Limestone, tan, dse.

2160-2170 Shale, dark gray, slightly calc.

2170-2180 Shale as above with tan ostracodal limestone.

2180-2190 Ostracodal limestone, tan as above.

2190-2200 As above with grades to dark gray shale with few ostracods.

2200-2210 Shale gray to tan.

2210-2230 As above some silty mica.

2230-2240 Shale as above with streaks of ostracodal limestone as above.

2240-2250 Shale, varigated with streaks of tan limestone, oolitic.

2250-2260 Shale, dark gray mica, streaked with limestone, tan and chalky.

2260-2270 Shale, dark gray to brown, silty, mica, calc.

2270-2280 As above.

2280-2290 Limestone, tan, ostracodal, with siltstone, calc. and sandstone, v.f.g., light gray.

2290-2300 Sandstone, v.f.g., light gray, slightly calc. with shale, gray to dark gray, mica, silty.

2300-2310 As above.

2310-2320 Sandstone f.g. to med. grain, gray dirty fria.

2320-2330 Shale, dark gray, calc, pyrite with limestone, tan chalky.

2330-2340 Limestone, tan to gray, chalky.

2340-2370 As above with dark limestone.

2370-2380 Shale, gray to tan, calc.

2380-2410 As above, silty mica, calc.

2410-2440 Shale, dark gray, mica, brown to red-brown; limestone, tan, dense, to chalky.

2440-2450 Shale, red to red-brown, and dark gray shale.

2450-2460 As above with tan limestone.

2460-2470 As above, poor sample contain with lost circulation material.

2470-2490 Sandstone, f.g., white, calc., clear quartz gins, slightly porous, good drilling break and show.

2490-2500 As above

2500-2510 As above.

2510-2520 Shale, red brown, mica, with streaks of siltstone, white, sandy, soft.

2520-2530 As above.

2530-2570 Sandstone as above.

2570-2590 Slightly calc, red to red brown shale.

2590-2600 Shale, brown, sample dirty.

2600-2620 Shale, brown to dark gray.

2620-2630 Siltstone, brown, calc, and red-brown shale as above.

2630-2640 Shale, red brown, with thin beds of sandstone, f.g., slight fluorescence, slight cut after heating.

2640-2650 Shale, red brown as above.

2650-2660 Shale red-brown, silty, slightly calc.

2660-2670 As above with dark gray shale.

2670-2680 Sandstone, white, v.f.g., hard , tight, calc.

2680-2690 Shale, dark gray to red brown mica, slightly calc.

2690-2700 As above with ostracodal limestone

2700-2710 Ostracodal limestone, light gray to tan and dark gray shale.

2710-2730 Ostracodal limestone, as above.

2730-2740 Shale, red brown to dark gray, silty, slightly calc., with ostracodal limestone.

2740-2750 As above with thin bed v.f.g. sandstone, white, calc.

2750-2760 Shale, dark gray, mica, slightly calc. with ostracodal limestone.

2760-2770 Shale, red-brown and dark gray.

2770-2790 As above with thin bed of light gray sandstone, v.f.g., calc.

2790-2800 Shale, dark gray to brown.

2800-2810 Shale as above with tan limestone, dnse., ostracodal.

2810-2820 Limestone, tan with dark gray and brown shale as above.

2820-2840 Interbedded varigated shale with tan limestone as above some ostracodal.

2840-2850 Shale dark gray

2850-2870 Shale, red brown, calc., bentonitic.

2870-2890 As above with gilsonite, no cut, waxy.

2890-2910 As above.

2910-2990 As above with silty red brown shale.

2990-3200 No sample description.

3200-3210 Shales, red-brown, some olive green varigated non calc.

3210-3230 As above some sandy and silty.

3230-3240 Silty shales, red-brown, with occassional waxy olive green shales.

- 3240-3250 Sand, reddish-gray, v.f.g. to m.g., mostly silty some salt and pepper appearing, no visual porosity, trace of limestone rather hard, gray.
- 3250-3260 Sand as above, angular grains, clay and silt filled, occasional slight porosity, poor show of black dry tar like material (Gilsonite)
- 3260-3280 Sand, dirty gray, v.f.g. to m.g., angular, some dead dry oil residue on grains, low porosity.
- 3280-3290 Sand as above and 50% shales red brown, semi-waxy rather soft.
- 3290-3320 Shales as above and silty shales, red-brown.
- 3320-3330 As above grades to sandy shale, hard, blocky.
- 3330-3340 As above and some limestone, reddish, hard, dense.
- 3340-3370 Sandstone, f.g. to m.g., gray, salt and pepper like, some multi-colored grains, black, pink, amber and tan. Angular to sub sub-rounded, clay fillings (Kaolinite) low porosity, sand is only slightly calc.
- 3370-3400 Siltstone sandy and claystone red-brown, few varigated beds, siltstones are hard.
- 3400-3410 As above with fair trace of sand, f.g., salt and pepper like, white, non calc., low porosity.
- 3410-3430 As sandstone above.
- 3430-3440 Siltstone red-brown and gray, hard, some grades sandy.
- CORE #1 3434-3481 Recovered 47'
- 3434-3440 Sandstone, v.f.g., gray, salt and pepper like, slightly calc., sub-angular grains, low porosity, heavy clay fillings, white, occasional thin red shale laminations.
- 3440-3447 Sand above, tan-gray, calc.
- 3447-3451 Shale red, slightly calc. and siltstone red-sandy grades red gray, vertical fractures.
- 3451-3457 Sandstone, reddish gray, v.f.g., well indurated, heavy clay fillings, slightly calc.
- 3457-3458 Shale red.

- 3458-3460 Silty sand, v.f.g. red-gray and some sandy siltstone, hard sand has low porosity.
- 3460-3466 Sand, gray white, cleaner than last above, v.f.g. to f.g., poor porosity.
- 3466-3477 Sand, v.f.g., gray-white, rather calc., salt and pepper like, low porosity.
- 3477-3479 Sand, v.f.g., micaceous, well indurated, salt and pepper like, slightly calc., low porosity.
- 3479-3481 Sandstone, conglomeratic, v.f.g. to pebble size grains, pebbles are fragments of reworked shale, light gray to dark gray also limestone pebbles tan, dense. Sand grades shaly in part.
- 3481-3490 As last above.
- 3490-3500 Shale, red-brown with some interbedded sands as last above.
- 3500-3510 Siltstone, red-brown to light gray and thin interlaminated sands white, f.g., salt and pepper like, calc., also some shales, pale green, semi-waxy which grades silty.
- 3510-3540 Sand, f.g., light gray-white, slightly glauconitic, low porosity, due to white clay fillings.
- 3540-3550 Sand as above and sand v.f.g., silty with reddish gray color, hard, well indurated.
- 3550-3560 Sand, v.f.g., hard, clay filled, probably has variegated shale and siltstone laminations.
- 3560-3580 Siltstone sandy, v.f.g., and variegated shales, pale red mustard, pale green and gray colors.
- 3580-3590 Shales and silty shales, black, blocky, rather hard, non calc.
- 3590-3610 Sand, white, salt and pepper like, white clay fillings, rather pyritic, sand if f.g. to m.g., traces of fair porosity no show.
- 3610-3620 Sand, v.f.g. to sandy siltstone, gray, hard and tight, grades to shales reddish-brown.
- 3620-3640 Shales red-brown and gray-green, some siltstone, red-brown, hard.
- 3640-3660 Sandstone, v.f.g., light gray, hard tight, slight salt and pepper appearance, some sand appears quartzitic.

- 3660-3680 Sand as above, with some thin inter laminations of shale, red-brown, pale green, tan, no porosity.
- 3680-3690 Shales and siltstones, red-brown and some varigated beds.
- 3690-3700 As above with thin sands v.f.g., hard, tight.
- 3700-3710 Siltstone red-brown, grades sandy, has limestone nodules tan to gray and some reddish.
- 3710-3740 Sand white slightly salt and pepper like, v.f.g. to m.g., sub-angular grains, slightly pyritic and micaceous, has white clay fillings, low porosity.
- 3740-3775 Shales red-brown and red, grade silty, also shales varigated.
- 3775-3790 Inter laminated thin beds of shale and siltstones above with sands, v.f.g., hard, tight, gray-green, gray and gray-white.
- 3790-3800 Sand, as above with some to f.g., white, salt and pepper like, slightly biotitic, clay filled, low porosity, trace dark gray shales.
- 3800-3810 Sand, white, f.g., salt and pepper like, mostly clay filled but a few clusters show fair porosity.
- 3810-3820 As 3775-3790 above.
- 3820-3840 Siltstone red-brown and shales red and red-brown, semi waxy, few light gray shales.
- 3840-3860 Shales red, red-brown with streaks of shales varigated.
- 3860-3870 As above and some med. gray shales and fair show of soft coal.
- 3870-3880 Shales varigated
- 3880-3890 Shales as above, mostly gray-green, grad silty with few v.f.g. dirty gray, hard, tight, sands.
- 3890-3900 As 3870-80 above, trace of coal.
- 3900-3910 As 3880-3890 above with thin sands white, f.g., salt and pepper like, tight.
- 3910-3920 Shales red-brown and some gray-greens.
- 3920-3940 Shales above and some thin beds v.f.g. gray, sands, hard , tight, fair show of coal.
- 3940-3950 Sand, dirty gray, hard, tight, micaceous, grades in part to cleaner f.g. white pyritic, salt and pepper like sand, traces of limestone nodules, tan, dense.

- 3950-3980 Sand, v.f.g., silty, dirty gray, hard, tight, some sand f.g.
- 3980-3990 Siltstone, red-brown which grade to dirty gray, silty v.f.g. sand (trip sample)
- 3990-4000 Shales-red-brown and varigated.
- 4000-4010 Shales varigated and thin dirty gray, silty, hard, tight, v.f.g. sands, probably thin bedded.
- 4010-4020 Shales red-brown and varigated.
- 4020-4030 Shales above, some sandy and silty.
- 4030-4040 Shales varigated and silty thin bedded sands, v.f.g., hard, tight.
- 4040-4050 Shales as above with increase sand, v.f.g., hard tight.
- 4050-4060 Shales red brown and varigated.
- 4060-4070 As above with 20% sand, v.f.g. to silty, dirty gray with pale reddish cast, hard, tight.
- 4070-4080 Shales as above.
- 4080-4090 Siltstone, red-brown and shales varigated.
- 4090-4100 Shales, red-brown, some silty and varigated, thin stringers, sand, silty, v.f.g., gray-white, hard, tight, 20% coal.
- 4100-4110 As above, 10% coal.
- 4110-4130 Shales red-brown and varigated and siltstones deep red.
- 4130-4140 Sand, silty, v.f.g., dirty gray, tight, very low porosity.
- 4140-4150 As above and 40% siltstone, red-brown.
- 4150-4160 Shales, red-brown and few silty sands, v.f.g. as 4130-40.
- 4160-4175 Sand, v.f.g., gray, slightly micaceous, glauconitic, hard and tight.
- 4175-4180 Shales red-brown.
- 4180-4210 Siltstones red-brown and sandy silts, red, thin interbedded, v.f.g. dirty gray sands, hard and tight.
- 4210-4220 As above with few limestone nodules tan, tan-gray.

- 4220-4250 Shales and siltstones red-brown with minor sands as 4180-4210.
- 4250-4260 Sand, v.f.g., white-gray, grades silty and silts.
- 4260-4270 Siltstones as above and minor amounts sands as above.
- 4270-4280 Siltstones and shales- red-brown, some varigated.
- 4280-4300 As above, silts grade sandy in part.
- 4300-4310 Sand, f.g., white, salt and pepper like, grades silty and reddish in color, tight.
- 4310-4320 Siltstone brown grades sandy and to sand, v.f.g., tight, tan and tan-brown, some red-brown silts.
- 4320-4330 Sand, v.f.g. to f.g., tight, tan-white, salt and pepper like also some varigated shales and silts.
- 4330-4340 Siltstones and shales, varigated, some silts grade sandy red-brown, trace of coal.
- 4340-4350 As above with larger precentage of gray-greens and med.gray.
- 4350-4360 As 4330-40 above with few tannish-white sands, v.f.g., tight.
- 4360-4370 Shales red-brown and varigated, semi waxy.
- 4370-4380 Sand, f.g. to some m.g., salt and pepper like, clay filled, tight, calc., sands are white to tan, and about 6% siltstone red-brown and shales varigated.
- 4380-4390 Siltstones and shales above, sands, v.f.g. as above.
- 4390-4400 As above, less sands, which are v.f.g.
- 4400-4410 Shales red-brown and considerable med. dark gray shales.
- 4410-4470 Shales red and silts, red-brown, minor sands tan, silty v.f.g., tight.
- 4470-4480 As above and 20% sand, v.f.g. to f.g., white, glaucuconitic, salt and pepper, well cemented.
- 4480-4490 Sands as above, with minor shales as before.
- 4490-4500 Sand as above and shales 10%.
- 4500-4510 Sand as before 80%, shale 20%.

- 4510-4520 Sands above 30-40%, and shales increased.
- 4520-4530 Shales and siltstone, red-brown and varigated.
- 4530-4550 Sands as above 50% and shales and silts 50%, probably interlaminated.
- 4550-4580 Shales and siltstones, red-brown and varigated, shales semi waxy.
- 4580-4590 Shales med. dark gray to dark gray, slightly ch#t.
- 4590-4600 Shales above 40% and shales varigated, red-brown 60%.
- 4600-4610 Shales grays and red-brown and some sand, v.f.g. to f.g. dirty gray, low porosity.
- 4610-4620 Shales varigated and med. gray siltstones, hard, grades to sand, dirty gray, v.f.g., silty to small portions, light gray, white,, f.g., well cemented with calcite, salt and pepper like, 20% sand.
- 4620-4630 Silty sands, sandy silts, med. gray, hard, tight (30% - 40% sample) and some red-brown shales and silts.
- 4630-4640 As above with increase of sand content, very hard, tight and dirty. Only minor varigated shales.
- 4640-4650 Shales and siltstones, red-brown and grays, minor sands as above, tight.
- 4650-4660 Limestone, med. gray to med. dark gray, micro crystalline, grades to silty as gray silts above. Some dense blocky lime.
- 4660-4670 Siltstone gray and dark gray with limestone dark gray to gray-brown, dense, 30% lime.
- 4670-4680 Sand, gray to dirty gray., calc., v.f.g. to f.g. appears very tight, some grades in color to reddish or purple tints.
- 4680-4690 Siltstone and sand, gray to gray-green, v.f.g. to f.g., tight.
- 4690-4730 Siltstone gray green, sandy and silts varigated, trace of dark gray limestone.
- 4730-4740 Shales and silts, gray-green and varigated.
- 4740-4750 As above and 50% sand, v.f.g. to f.g., hard, tight, white and grades white-gray silty.

- 4750-4760 Silts varigated and 10%. Limestone, gray to gray-brown, dense.
- 4760-4770 As above with trace of sand, v.f.g., salt and pepper like, white, tight.
- 4770-4780 Siltstone, red-brown and varigated.
- 4780-4790 Sand, v.f.g., silty, dirty gray to white f.g., salt and pepper like, slightly calc., tight.
- 4790-4820 Siltstone, red-brown and varigated. (olive and mustard colors).
- 4820-4830 Sand, v.f.g. to m.g., white, salt and pepper like and small amount of limestone, gray to gray-brown.
- 4830-4840 Sand above (20%) tight and siltstone vari-colored, tan, olive, gray and gray-green.
- 4840-4850 Shales and silts as above, and 10% limestone, tan, gray, micro crystalline, probably interbedded.
- 4850-4870 Shales and silts above and 15-20% limestone tan-brown, v.f.g., and some gray dense hard micro crystalline.
- 4870-4890 Shales and silts varigated and shale tan, bentonitic.
- 4890-4910 As above and 10-20% limestone, gray, platy and dense.
- 4910-4920 As above, trace of limestone and 20% sand, white, silty, v.f.g. to f.g. and salt and pepper like, tight.
- 4920-4930 Sand as above 30%, grades to silty sand, gray.
- 4930-4940 Shales and silts varigated, increase in grays, thin dirty gray limestone (10%) and bentonitic tan shales.
- 4940-4950 Shales gray to dark gray and varigated, non calc., considerable coal (20%), bentonitic shales tan.
- 4950-4960 Shales varigated, grays and trace of coal, 10% limestone, gray, tan-brown, micro crystalline.
- 4960-4980 Shales and siltstones varigated, mostly grays, silts grade to sand, v.f.g. to f.g., salt and pepper like, hard and tight (up to 10% sand).
- 4980-4990 Siltstone, light gray to gray, grades sandy v.f.g., hard and tight, and 20% limestone same colors.

- 4990-5000 Sand, white, v.f.g. to occasional f.g., salt and pepper like, tight, sand grades silty, light gray to med. gray with trace limestone, same colors.
- 5000-5010 Sand, f.g. to med. grain and some coarse grained, white, calc., and good salt and pepper effect, sand is probably conglomeratic in part, traces limestone as above.
- 5010-5020 Shale, light med. gray and silts gray, grades to v.f.g. sand with a slight reddish cast. Shales variegated; pale red, tan, red-brown, and green grays.
- 5020-5040 Shales gray, light to medium, semi waxy, some grade sandy also interbedded limestone, red, tan and dark gray-brown, micro-crystalline and platy.
- 5040-5050 Shales gray limestone gray-tan, siltstones firm, slightly sandy, green-gray, slightly calc., some variegated beds.
- 5050-5060 Shales gray slightly sandy and some limestone, gray, micro-crystalline, rather soft, some is tan-brown, dense, hard, few dark gray shales.
- 5060-5070 Shales gray with greenish cast and 70% limestone, gray, somewhat platy, micro-crystalline, some gray siltstones.
- 5070-5080 Shales green-gray, very limy and limestone green-gray, probably grade one to the other, both are soft.
- 5080-5090 Shale and limestone above grades sandy, v.f.g. some sand 10%, white, v.f.g., calc, soft, no porosity.
- 5090-5100 Siltstone, light gray with green cast, grades to sand, v.f.g., white with green cast, calc., soft, low porosity, has slight salt and pepper appearance, some white bentonite^{c-5}
- 5100-5110 Shales and silts, green gray, 65%, and sand, v.f.g. to occasional f.g., white to greenish gray, some 15% limestone, green-gray, hard.
- 5110-5130 Shales and siltstone, slightly calc., green-gray, silts grade sandy, v.f.g.
- 5130-5140 Sand, v.f.g., white to pale green-white, calc., low porosity, grades silty and has interbedded shales, green-gray and gray (25%), trace of limestone, light tan-gray.
- 5140-5150 Shales gray-green to silts, v.f.g., sandy in part, some variegated beds and thin limestones tan, dense to dark gray platy.

- 5150-5160 As last above with increase of limestone, tan-gray, dense, to micro crystalline (lime is 25-30% sample) trace bentonite, white.
- 5160-5170 As 5140-50 above with slight increase in sand, v.f.g., white, trace bentonite, white.
- 5170-5180 As last above with increase in sand, v.f.g., white, calc., tight, (20% of sample).
- 5180-5190 As 5140-50 above and 20% sand as above.
- 5190-5200 Shale and silts, gray and varigated, 50% sand, vfg to m.g., angular, non-calc., good salt and pepper appearance, heavy clay fillings, good trace coal, fair amount limestone tan, dense, to dark gray platey.
- 5200-5210 Sand, f.g. to m.g., white, salt and pepper like, slightly calc., porous in part, some siltstone, white-gray, sandy, hard, slightly calc., probably a few thin shales, gray and gray-green.
- 5210-5220 Sand, v.f.g., white, salt and pepper like, slightly calc., harder than sand above, low to no porosity, grades to or interbedded with siltstone, light gray and shales gray and green-gray, trace of limestone, gray, hard, dense.
- 5220-5230 Limestone, light gray, micro crystalline, rather hard and interbedded or grades to siltstone and shales, light gray, green-gray and gray, few varicolored beds. *above*
- 5230-5240 As last above 50%, and 50% sand 5200-20.
- 5240-5250 Sandstone as 5200-5210, no porosity, probably interbedded with shales and silts, gray, few varicolored beds.
- 5250-5260 Sand as above 50% and silts, hard, gray, some sandy and silicious appearing. 10% limestone gray to med. gray, hard.
- 5260-5280 Interbedded, sand above and sand v.f.g. with shales and silts, gray, green-gray, some dark gray, grays are sometimes mottled reddish.
- 5280-5290 Sandstone, v.f.g. to some fine and med. grain as 5200-20 and 25% shales and siltstones gray and green-grays, few varicolored beds and some limestone, white to gray, probably associated with the silts and shales.

- 5290-5300 Sandstone, f.g., salt and pepper like, appears porous, slightly calc., and 30% shales and siltstones as above, trace of limestone, light gray to dark gray.
- 5300-5310 Sandstone as above 15-20%, shales and silts gray to green-gray and red-brown trace of limestone as above.
- 5310-5320 Shales, light gray to gray and green-grays, some variegated beds. Sample is bentonitic.
- CORE #2 5319-5356 Rec. 36'.
- 5319-5320 Sandy siltstone, green-gray, hard, very calc., has salt and pepper effect, no porosity.
- 5320-5321 Sandstone, v.f.g., green-gray, hard, calc., has no porosity, silty.
- 5321-5325 Shale, silty, green-gray, slightly calc., pyritic.
- 5325-5326 Shales, dark gray with green cast, only slightly calc., rather pyritic.
- 5326-5327 Sandstone, green-gray, calc., v.f.g., micaceous, salt and pepper like, hard, tight, no porosity.
- 5327-5330 Shale, very dark gray, non calc., hard.
- 5330-5334 Shale, silty, very calc., green-gray, hard.
- 5334-5335 Shale, med. dark green, non calc., waxy, firm.
- 5335-5339 Shale, silty, dark gray with slight greenish cast, micaceous.
- 5339-5342 Siltstone, dark gray, non calc., hard, very finely divided, pyrite.
- 5342-5343 Shale, dark green-gray, waxy, rotten.
- 5343-5348 Shale, slightly silty, very calc., dark gray with greenish cast, hard.
- 5348-5350 Shale, black, some with greenish cast, waxy, non calc.
- 5350-5352 Shale, dark green-gray, grading to dark gray, black, calc., hard.
- 5352-5353 Shale dark gray to black.

- 5353-5355 Shale, black, waxy, grades to dark gray with green cast, non calc.,
- 5355-5360 Shale green-gray and some dark gray, black.
- 5360-5370 Shale green-gray.
- 5370-5380 Shale above and some tan to gray dense, limestone.
- 5380-5390 Shales green-gray with increase limestone above, trace sand, v.f.g., salt and pepper like, tight.
- 5390-5400 Sandstone, v.f.g., white, salt and pepper like, tight, slightly calc., some light gray siltstone and 10% limestone, tan to gray-brown.
- 5400-5410 Sandstone f.g. to m.g., slightly calc., slightly pyritic, salt and pepper effect, appears to have spotty low porosity.
- 5410-5420 Sandstone as above, f.g. with some med. gray siltstones and shales. 5% limestone tan to brown.
- 5420-5440 Shales and siltstones med gray and green-gray, 5% limestone as above.
- 5440-5450 Shales and silts above, trace of limestone as above.
- 5450-5460 Shale and siltstone, med. gray to green-gray.
- 5460-5470 As last above and 10% limestone tan to gray, dense.
- 5470-5480 Shales gray and green-gray, grades to siltstone sandy, 15-20% limestone tan, gray, dense, probably as thin interbeds.
- 5480-5490 Siltstone green-gray, slightly sandy in part and trace of limestone as above.
- 5490-5500 As above and 30% sandy siltstone or silty sand, to v.f.g., light gray.
- 5500-5510 Siltstone- green-gray, and gray, light gray siltstone grades to v.f.g., slightly calc., tight, white, trace of limestone as above.
- 5510-5520 Silts and shales gray, green-gray, fair amount of limestone, tan to cream and gray, dense.

- 5520-5530 As above, silts grade sandy, v.f.g.
- 5530-5540 Shales, green-gray, waxy, silts same color, grays, small amount black silt, some limestone, light gray and gray.
- 5540-5550 As above with light gray and greenish siltstones, grading sandy to sand, v.f.g., slight grayish, calc., tight.
- 5550-5560 Sandstone, v.f.g., slightly calc., probably interbedded with shales, gray and green-gray, some sand grades to siltstone, sandy, light gray.
- 5560-5570 Shales, light gray and light green-gray, trace of limestone, tan and gray, dense.
- 5570-5580 Shales as above and siltstones same colors, non calc.
- 5580-5590 As above with trace of limestone, gray-tan.
- 5590-5600 Sandstone, v.f.g. to f.g., white, poorly sorted, angular interworking grains, good salt and pepper effect, non calc., trace of dry dead oil or carbonaceous material. Sand appears very tight.
- 5600-5610 Sand as above, better sorting, white, slightly calc., dry dead oil stain trace, low porosity.
- 5610-5620 Sandstone as above, very little dead oil showing, appears more porous than above.
- 5620-5635 Sandstone, v.f.g. to m.g., white, salt and pepper like, non calc., where sorting is good there appears to be some porosity, some white clay fillings.
- 5635-5650 Shales and siltstones, gray to occasional black and some sandstone as 5620-5630.
- 5650-5695 Interbedded shales gray, with some limestone nodules, tan-brown in shale, thin sands, f.g., white, uniform, no porosity, non calc.
- 5695-5705 Sandstone, v.f.g., white, non calc., uniform, glassy appearance, hard, tight.
- 5705-5720 Shales gray and green-gray, with v.f.g. to f.g. sandstone, salt and pepper, tight, slightly calc., some sand is very hard, some grades to very sandy silt.

- 5720-5730 Sandstone, white, f.g., salt and pepper, white, clay fillings, no visual porosity.
- 5730-5745 Shales, gray to gray-green, non calc., with few siltstones or silty shales, a few black siltstones, hard, blocky.
- 5745-5755 Sandstone, v.f.g. to f.g., white, somewhat salt and pepper like, non calc., low porosity.
- 5755-5765 Shales gray, med. gray, non calc., rather hard.
- 5765-5770 Sandstone, v.f.g. to f.g., white, slightly salt and pepper like, some slight porosity.
- 5770-5775 Shales as 55-65 above.
- 5775-5785 Shales above and sandstone as 65-70 above.
- 5785-5810 Sandstone, v.f.g. to f.g., sub-angular grain, mostly quartz, non calc., slight to occasional fair porosity.
- 5810-5840 Shales, light gray to med. dark gray and light gray silts, some light gray sandy shale, all non calc.
- 5840-5855 Sandstone, white, f.g. to some m.g., non calc., slightly salt and pepper like, tight, grades to v.f.g. near base.
- 5855-5865 Silty sandstone and sandy siltstone, gray-white, hard, tight, some shales gray to dark gray.
- 5865-5890 Sandstone, v.f.g. to occasional f.g., white, hard, tight, slightly salt and pepper like, non calc.
- 5890-5900 Shales, light med. gray, med. gray, and dark gray.
- 5900-5910 As above but grade silty.
- 5910-5920 Coal black 45% and 40% shales as above, small amount sandstone, v.f.g., white, tight, non calc.,
- 5920-5955 Shales, light gray silty to gray silty, small amount of sand, v.f.g. to f.g., tight and some coal.
- 5955-5970 Sandstone, v.f.g., salt and pepper like, tight, grades to sand f.g., and occasional m.g., non calc, tight.
- 5970-6000 Shales and siltstone, gray to med. dark gray and some black, few thin sandstones silty to v.f.g., hard, tight.

- 6000-6020 Sandstone, v.f.g. to f.g., salt and pepper like, slightly calc., poor porosity, grades to sugary appearing sand, light gray, to dirty gray, has interbedded shales gray, dark gray and siltstones gray, sandy.
- 6020-6120 Interbedded thin sandstone, v.f.g. to f.g., white to dirty gray, some salt and pepper like, with shales gray-dark gray and siltstone gray, shales and silts are bentonitic in places also thin coal beds.
- 6120-6130 Sandstone, white, f.g., slightly salt and pepper like, tight, slightly calc.
- 6130-6135 Shales and siltstones gray to med dark gray.
- 6135-6158 Sandstone, white, f.g. to m.g., salt and pepper like, tight, has paper thin black carbonaceous partings.
- CORE #3 6'58-6179 Rec. 20.4'
- 6158-6159 Sandstone, light gray, f.g. to occasional m.g., good salt and pepper appearance, non calc., friable, angular-sub angular grains, slight distillate odor, good blue fluorescence and pale yellow blue cut, appears tight, clay filled, trace of pyrite, few carbonaceous paper thin partings. (13% porosity and less than one md. permeability).
- 6159-6160 Sandstone, v.f.g. to f.g., gray, salt and pepper like, non calc., more indurated than sand above, no odor, no fluorescence, dull pale gold cut, appears tighter than above.
- 6160-6163 Shale black with jet black carbonaceous inclusions.
- 6163-6164.5 Sandstone, silty, v.f.g., med. light gray, only slightly salt and pepper appearing, calc., hard, very tight, well indurated, some very slight irregular carbonaceous boundings.
- 6164.5-6168 Shales, med dark gray to black, slightly calc., firm, few carbonaceous fragments along bedding planes (resemble coal).
- 6168-6171 Sandstone, v.f.g., light gray and v.f.g., silty and micaceous, salt and pepper like, hard, very tight, grades to siltstone sandy, has rather numerous paper thin carbonaceous partings which give handed effect. Has very slight dull dirty gold cut.
- 6171-6172 Shale with silty streaks.
- 6172-6174 Sandstone, v.f.g., silty, hard, gray, very tight, calc., salt and pepper effect, carbonaceous partings.

- 6174-6178.5 Shale, med. dark gray to black, calc., paper thin carbonaceous partings.
- 6180-6225 Shales, dark gray and siltstones med. gray and grade to sandy, dirty gray appearing, a few thin sandstone beds, v.f.g., hard, tight.
- 6225-6250 Sandstone, white, salt and pepper like, non calc., tight, a few interbedded gray siltstones sandy and trace of coal.
- 6250-6300 Shales dark gray-black and interbedded siltstones, med. dark gray, sandy, occasional traces of coal.
- 6300-6315 Shales as above and siltstones, dark gray and light gray sandy siltstones, trace of coal, few thin sand beds, f.g., tight.
- 6315-6330 Sandstone, f.g., white, salt and pepper appearing, tight, slightly calc., grades to sand, v.f.g., gray and dirty gray, silty.
- 6330-6340 Siltstone, med. gray and dirty gray-brown, sandy in part.
- 6340-6350 Shales, med. gray and dark gray-black, non calc.
- 6350-6370 Shales gray-dark gray and siltstone same color.
- 6370-6380 Siltstone dark gray and light gray, thin bed of v.f.g., white sand, tight.
- 6380-6395 Sandstone, f.g., white, tight, grades silty and dirty gray.
- 6395-6405 Silty shale, gray, bentonitic.
- 6405-6410 Sandstone, f.g., white, tight, grades silty, gray.
- 6410-6435 Siltstone, bentonitic, sandy in part, light gray to gray, few thin sandstone beds, v.f.g. to f.g., white, non calc., tight.
- 6435-6455 Sandstone, white, calc., tight, f.g., interbedded with minor silty sands, light gray, bentonitic, trace of coal.
- 6455-6470 Siltstone light gray, sandy, bentonitic, trace of coal.
- 6470-6480 Shale, dirty gray, very bentonitic, grades to siltstone, sandy, v.f.g., bentonitic.
- 6480-6490 As above with 10% sand, white, v.f.g., tight.
- 6490-6500 As 70-80 above and trace of coal.

- 6500-6510 Sandstone, v.f.g. to f.g., white, tight, bentonitic, and siltstone gray, v.f.g., bentonitic, both are slightly calc.
- 6510-6520 Sandstone, v.f.g. to m.g., salt and pepper like, tight, blue fluorescense and slight cut.
- 6520-6530 Sand, f.g., white, tight, and 70% shale silty dark gray to black, trace of coal.
- 6530-6540 Sand as above 20%, and sand, v.f.g., silty, all tight 20% and 60% shale, dark gray to black, trace of coal.
- 6540-6550 Siltstone, light gray, sandy, v.f.g., slightly micaceous, slightly calc., has streaks of sand, gray, v.f.g. to f.g., tight and 25% shale, dark gray-black, non calc., sample is bentonitic.
- 6550-6560 Sandstone, f.g., white, good salt and pepper effect, tight, non calc., grades to sand, v.f.g. to f.g., dirty gray, silty, traces of coal, sample is bentonitic.
- 6560-6570 Siltstone as 6540-50 above 50%, with sandstones as 6550-60 above 15% and 35% shale dark gray-black, bentonitic.
- 6570-6580 Shale black, dark gray, silty, non calc. and siltstone gray, sandy in part, interbedded, sample is bentonitic.
- 6580-6590 As last above with gray silts becoming more sandy and grades to sand (5-10%), v.g., tight.
- 6590-6600 As 6540-50 above.
- 6600-6620 As above, bentonitic, trace of coal, some sand (5-15%), white v.f.g., tight.
- 6620-6630 Siltstone, gray and dark gray, grays are sandy, v.f.g., trace of sand (5%) v.f.g., white, hard, tight.
- 6630-6640 Siltstone gray, grades sandy, v.f.g. and sand v.f.g., white, salt and pepper like, tight, grades silty.
- 6640-6650 Siltstone, gray, sandy, v.f.g., dark gray-black, trace of sand, v.f.g., white, probably grades silty (5%).
- 6650-6660 Siltstone, gray, sandy, v.f.g. to occasionally f.g. sand (15%), tight, non calc., and trace of coal.
- 6660-6670 Sand, v.f.g., tight, white to occasional f.g. (45%) and siltstone gray, grades sandy, trace of coal.

- 6670-6680 Sandstone, white, f.g., uniform, salt and pepper like, non calc., appears slightly porous in part, good blue fluorescence and variable cut (fair to slight) trace of coal.
- 6680-6685 Sand, v.f.g. to f.g., white, (25%) and siltstone gray to dirty gray to v.f.g. sand silt (35%) and 40% shale black, trace of coal
- 6685-6700 Sand, v.f.g. to occasional f.g., tight, non calc., light gray, slight salt and pepper effect with 25% siltstone, gray and 50% shale, silty black, trace of coal.
- 6700-6710 Sandstone, v.f.g. as above, tight, grades silty and 30% shale, black silty, trace of coal.
- 6710-6720 Sandstone, v.f.g., silty, carbonaceous and coaly, 40% shale, silty black, sand is very tight.
- 6720-6730 Sandstone, v.f.g. to f.g. (25%) and 45% siltstone sandy to v.f.g. and 30% shale black, silty carbonaceous material and coaly.
- 6730-6740 Siltstone , gray and sandy and less than 10% sand v.f.g., and 50% shale black, trace of coal.
- 6740-6750 Shale black, hard, and 25% gray to dirty gray siltstone sandy.
- 6750-6770 Shale black, hard and 20-25% siltstone gray-dirty gray sandy, trace of coal.
- 6770-6780 Sandstone f.g., white, non calc., tight and 25% siltstone sandy, gray.
- 6780-6790 Siltstone gray to dark gray and sandy with silty sandstone stringers (20%) tight.
- 6790-6800 Siltstone light gray sandy, and shale black to dark gray.
- 6800-6808 Sand, v.f.g. to m.g., non calc., appears tight, fair fluorescence and cut.

CORE #4

6808-6858

Red. 42'

The recovery was probably nearer 50' but due to overloading the core barrel the last 10-12 feet were broken, making the exacting measurements difficult.

- 6808-6813 Sand, gray, v.f.g. to m.g., micaceous, salt and pepper like, very slightly calc., occasional carbonaceous streaks, heavy white and tan clay fillings, good odor, fluorescence and cut, tight.
- 6813-6817.5 Shale, black, non calc., very hard, dense, thin carbonaceous or coaly partings, silty near coaly portions.
- 6817.5-6820 Sand, v.f.g., non calc., no porosity, silty, gray and salt and pepper like, minor carbonaceous laminations along bedding plane, no odor of fluorescence, micaceous.
- 6820-6822 Sand as first 5' above, no odor, fluorescence or cut.
- 6822-6828 Sand clean, gray, salt and pepper like, grading to dirty gray silty sand, considerable reworked carbonaceous material, thin coaly laminations and fragments about 3 feet has good odor, fluorescence and cut.
- 6828-6831 Sand, v.f.g., gray, salt and pepper like, slightly calc., bentonitic, slightly friable, silty in part, tight, clay fillings, no shows.
- 6831-6838 Sand, f.g., gray, salt and pepper like, slightly calc to very calc., white clay fillings and tight, some black shale pabbles inclusions, hard and dense shale, top foot has odor, fluorescence and cut.
- 6838-6842 Sand, v.f.g. to m.g., salt and pepper like, slightly calc., slightly micaceous, white clay fillings, tight appearing has odor, fluorescence and cut.
- 6842-6843 Sand as above, no odor.
- 6843-6847 Sand, v.f.g. to f.g., gray, salt and pepper like, tight, has odor, fluorescence and cut, has vertical fracture, calcite filled.
- 6847-6850 Sand, v.f.g. to f.g., salt and pepper like, very slightly calc., gray to very dark gray, silty, considerable coaly and carbonaceous laminations, sand has heavy tan and white clay fillings, no odor to spotty odor and has very salty taste, has vertical fracture, calcite filled.
- 6850-6858 Lost portion of core, probably all sand as above.
- 6860-6870 Shale, silty black, minor amount (10%) and sand v.f.g. to f.g., as above probably grades silty.
- 6870-6880 Shale as above with 25% sand above and 25% siltstone, sandy.

- 6880-6890 Shales above and 30% sand above, 30% siltstone, sandy, gray.
- 6890-6900 Siltstone, light gray-gray sandy and 25% shale black, silty.
- 6900-6910 Shale black, coaly, silty, and dark gray siltstone 25%.
- 6910-6920 Shale black, dirty dark gray silty and 20% sand v.f.g., white-gray, grades silty, tight, fair trace of coal.
- 6920-6930 Sand, white, v.f.g. to f.g., salt and pepper like, non calc., tight and 20% silty shale black, carbonaceous and coaly material.
- 6930-6940 Shale black, silty and 10% sand as above, abundant coal 10-20%.
- 6940-6950 Shale black silty and 20% sand as above and 10-15% coal and carbonaceous material.
- 6950-6960 Siltstone, gray, sandy and 20% sand, white, v.f.g., and 30% black silty shale, 5% coal.
- 6960-6970 Sand, v.f.g., white, hard, tight, non calc., silicious appearing, grades to gray and dirty gray silty, some carbonaceous material interbedded.
- 6970-6980 Interlaminated sand, v.f.g., white to gray silty sand and shale black silty, trace of coal.
- 6980-6990 Sand, v.f.g., white, tight, non calc., and 25% shale black, hard, trace of coal.
- 6990-7000 As above interlaminated, about 50-50.
- 7000-7010 Shale black, silty with thin interbeds of silty sand, gray and sandy siltstone, 10% coal.
- 7010-7020 Shale black, dark gray, silty and 20% sand, v.f.g., white as 10% coal.
- 7020-7030 Interbedded shale black, silty, hard 50%, and 30% siltstone sandy, dirty gray, 20% sand silty, v.f.g., gray to white, tight, trace of coal.
- 7030-7040 Sandstone, white and light gray, v.f.g., silicious appearing, tight 60%, and 40% shale black, silty.
- 7040-7050 Sandstone above 20%, and 80% interbedded shale, black and dark gray, trace of coal.

- 7050-7060 Interbedded sands above 10%, shales dark gray and black with trace of coal.
- 7060-7070 Sand, white, v.f.g., uniform, very tight appearing, non calc., 35% and 35% siltstone gray sandy, and 30% shale, black, trace of coal.
- 7070-7080 Shale, dark gray and black, trace of sand and coal.
- 7080-7090 Shale as above, appears more silty and slightly sandy.
- 7090-7100 Shale black, and silty shale black, trace of coal.
- 7100-7110 Siltstone and shale, dark gray and black, trace of sand and coal.
- 7110-7120 Shale and siltstone, dark gray and black, trace of sand and coal.
- 7120-7130 Shale and siltstone, dark gray and black, 10% sand, v.f.g., 10% coal.
- 7130-7140 Shale black, coaly, 15% sand, white, v.f.g., slight salt and papper like, tight, non calc.
- 7140-7150 Shale, black, coaly and 20% sand, v.f.g., white-gray, hard silicious appearing.
- 7150-7160 Shale black, and dark gray, 30% sand carbonaceous, tight and 20% silty sand or sandy silt gray.
- 7160-7170 Sand, v.f.g., hard, tight, non calc, white to gray silty, rather abundant coal.
- 7170-7180 Coal, and few interbedded sands v.f.g., hard and gray, silts sandy.
- 7180-7190 Shale dark gray-black, some silty and 40% coal.
- 7190-7200 Siltstone, sandy, light gray with few thin sands, gray, v.f.g., shale black and carbonaceous 20%, and 40% coal.
- 7200-7210 Shale black 40%, 20% coal, 25% siltstone light gray and 15% sand, v.f.g., white, tight, non calc.
- 7210-7230 Sand, v.f.g., white, tight, non calc., grades silty to v.v. f.g. 70%, and some coals with silts dark gray interbedded.
- 7230-7240 Shale black and silty shale black, 10% coal and 35% sand as above.
- 7240-7250 Shale dark gray and black, 15% sand as above, and 35% sandy silt and silty sand, gray, 10% coal.

- 7250-7270 Interbedded sands, white, hard, tight, silts dark gray and shale black-dark gray, 10% coals.
- 7272-7299 CORE #5
- 7299-7321 CORE #6
- 7321-7352 CORE #7
- 7352-7360 CORE #8
- 7360-7383 CORE #9
- 7383-7390 Sand, light gray, slightly calc., v.f.g., some sand is salt and pepper like appears tight and glassy, and about 50% shale dark gray-black, some silty sand or sandy silt, trace of coal, part of sand has blue fluorescence and weak cut.
- 7390-7400 Sand as above 50% and silty sand, hard, dark gray, shale black-dark gray, 10% coal, occasional blue fluorescence and variable cut (fair to poor).
- 7400-7410 Sand, v.f.g. to f.g., light gray, tight, some silty sand, gray, spotty blue fluorescence, some fair cut, and 40% shale, black.
- 7410-7420 Shale dark gray-black, 50% and 35% shale silty or sandy, dark gray, 15% sand as above, fair amount of coal, and some bentonite white.
- 7420-7430 Silty and shaly sand, v.f.g. 50%, and 15-20% sand, v.f.g., hard and tight, white, non calc., 25% shale black, hard and dense, trace of coal and bentonite white.
- 7430-7440 Shale black, 50% and 25% silty shale and sandy shale, 25% sand, white, hard and gray-white, very hard, v.f.g., non calc., trace of coal.
- 7440-7450 Shale dark gray, 20% coal, 40% sand, dirty gray, grades to siltstone.
- 7450-7460 Shale silty, dirty gray, 50% and 25% sand, v.f.g., gray-white, hard and tight, 25% shale black carb. and coaly.
- 7460-7470 Shale black, silty and very dark gray-dirty brown, soft, non calc., 25% coal.
- 7470-7480 Shale black, silty, very dark gray and dark gray, soft, some are limy, 30% coal.

CORE RECORD

Core #5 7272 - 7299 Cut 27', Rec. 24.6'

- 7272 - 7280.7 Sandstone, light gray, salt and pepper, v.f.g. to f.g., non calc., heavy, white and tan cement, has few thin carbonaceous laminations, appears tight, fair odor to poor odor, has good yellow-gold fluorescence and good yellow-blue cut.
- 7280.7-7292 Shale black, hard, dense, non calc., silty in part, has carbonaceous fragments scattered, also thin beds, 2" to 6" thick of coaly and shaly carbonaceous material.
- 7292-7293 Silty shale to sandy, black, non calc., carbonaceous in part, very good odor, no fluorescence but has yellow-blue cut.
- 7293-7294 Silty and sandy shale (more sandy than above) black, carbonaceous in part, very good odor, no fluorescence, yellow-blue cut.
- 7294-7296 Sandstone v.f.g. light gray - tannish, has banding of paper thin carbonaceous laminations, non calc., bentonitic, appears slightly more porous than sands in upper part of core, has very good odor, yellow-gold fluorescence and yellow-blue cut.
- 7296-7299 Last portion of core; found fragments of light gray, very soft bentonitic sand, appears to grade to bentonite sandy, white, v.f.g., this was taken from bottom of core barrel before core was removed. Samples of this material had excellent gold-yellow fluorescence and cut yellow-blue.

NOTE: 7277-7280 had a high angle fracture which was probably responsible for jamming the core barrel.

Core #6 7299 - 7321 Cut 22', Rec. 22'

- 7299-7300 Sand, v.f.g., light gray, non calc., sub-angular grains, slight salt and pepper effect, heavy cement, tight, good odor and good yellow-blue fluorescence and cut.
- 7300-7307 Shale black, slightly bentonitic, hard dense, few scattered carbonaceous inclusions.
- 7307-7308 Interlaminated thin silty sands, v.f.g., light gray and black carbonaceous, sandy shale, micaceous, faint odor, irregular gold fluorescence, probably mineral fluorescence, no cut.
- 7308-7311 Sand., gray, slightly calc., v.f.g., very hard, tight, very slightly salt and pepper appearing, has a few thin carbonaceous and micaceous partings, no odor, yellow-gold mineral fluorescence, no cut.
- 7311-7312 Sand, v.f.g., light gray, moderately hard, tight, slightly calc., bentonitic, thin carbonaceous and micaceous partings with 1/4 to 1/2 inch sand laminations, has faint odor and gold mineral fluorescence, no cut.
- 7312-7313 Sand, v.f.g., light gray, salt and pepper like, slightly calc., tight appearing, a few shale and carbonaceous laminations, gold mineral fluorescence, no cut.
- 7313-7315 Sand, v.f.g., light gray, salt and pepper like, slightly calc., appears tight, well cemented, good odor, yellow-blue fluorescence and cut.

7315-7317 Shale black, rather soft, non calc., very carbonaceous and coaly in part, silty in less carbonaceous portions.

7317-7318 Sand, silty, dirty gray, v.f.g., very carbonaceous, moderately hard, slightly calc., slightly micaceous, gold mineral fluorescence no cut.

7318-7319 Sand, v.f.g., light gray, slightly salt and pepper like, slightly calc., tight, few thin carbonaceous laminations, very faint odor, gold fluorescence, no cut.

7319-7320 Sand, v.f.g., light gray, slightly salt and pepper effect, very slightly calc., appears tight, a few carbonaceous thin partings fair odor, yellow-blue fluorescence and cut.

7320-7321 Shale, black, grades to silty, dirty gray shale, rather soft, fractured, some coaly portions, non calc.

Core #7 7321 - 7352 Cut 31.0', Rec. 28.6'

7321-7334 Shale, black, somewhat bentonitic, has rather abundant carbonaceous and thin coaly streaks.

7334-7341 Shale dark gray, black, micaceous material, finely divided, occasional carbonaceous inclusions, non calc., slightly silty and sandy in thin streaks.

7341-7342 Sand, light gray, v.f.g., slight salt and pepper appearance, carbonaceous inclusions and partings, tight, good odor, pale blue cut and fluorescence.

7342-7343 Sand as above, silty in part, faint odor, poor gold-yellow-blue fluorescence and cut.

7343-7344 Sand as above, but no silty, good odor and blue fluorescence.

7344-7345 Sand v.f.g. to f.g., salt and pepper like, non calc., good odor, slight pale blue fluorescence and cut.

7345-7346 Sand as above, containing carbonaceous mottles. Good odor, slight pale blue fluorescence and cut.

7346-7347 Sand, v.f.g., gray, silty, thin carbonaceous laminations and shale, black as larger laminations, fair odor, fair fluorescence and cut (Pale blue) sand is very hard and tight, non calc.

7347-7348 Sand, v.f.g. with thin interlaminations of shale black, faint odor, gold fluorescence, pale blue cut.

7348-7349 Sand as above with fewer laminations, faint odor, gold and pale blue irregular fluorescence, pale blue cut.

7349-7350 Sand, light gray, v.f.g. to f.g., carbonaceous mottles, good odor, good pale blue fluorescence.

NOTE: Lost portion of core probably in last two feet due to fractures.

Core #8 7352 - 7360 Cut 8', Rec. 6'

7352-7360 Shale black, some carbonaceous and coaly partings fractured.

Core #9 7360 - 7383 Cut 23', Rec. 21' 1-2-61

7360-7362 Shale black, slightly carbonaceous, slightly silty.

- 7362-7363 Sandy shale, carbonaceous and silty, dirty dark gray color, sandy part is very hard, tight, appears silicious, no odor, but has dull gold fluorescence, verticle fractures.
- 7363-7364 Sand, gray with thin carbonaceous and micaceous laminations, sand laminations 1/4 to 1/8 inch thick, hard, tight, silicious appearing, has very faint odor and dull gold fluorescence, no cut.
- 7364-7365 Sand, v.f.g., gray, slightly salt and pepper appearing, hard and tight, has few carbonaceous shaly partings, faint odor, gold fluorescence, faint blue cut.
- 7365-7367 Shale, very carbonaceous and coaly, vert. fractures.
- 7367-7369 Shale, silty, to sandy in small portion, sandy parts very hard, no odor.
- 7369-7370 Sand, v.f.g., light gray, slightly salt and pepperlike, micaceous, minor silty shale partings, faint odor, dull gold fluorescence, faint yellow-blue cut.
- 7370-7371 Sand, v.f.g., light gray, laminations of carbonaceous and shaly material. Has faint odor, gold fluorescence, faint yellow-blue cut, has verticle fracture.
- 7371-7371.5 Shale black, hard, dense.
- 7371.5-7373 Sand, shaly and silty, v.f.g., dirty gray, appears very tight, has faint odor, poor cut and fluorescence.
- 7373-7381 Shale black, hard and dense, few scattered carbonaceous fragments, shale is bentonitic.

- 7480-7490 Shale black, silty and carbonaceous, slightly limy, siltstone dark gray limy, silts are in small part sandy, v.f.g., light gray, probably as thin stringers.
- 7490-7500 Sand, v.f.g., light gray-tan and dirty gray 40%, sand is compact, hard, tight and glassy like, 60% silty shale black, hard, non calc., dense, some parts slightly carbonaceous.
- 7500-7510 Siltstone, dirty gray, sandy, hard, and 50% shale black silty and in part carbonaceous and coaly, some silty sand has faint fluorescence and cut, 15% sand gray, v.f.g., silty, tight, hard, non calc.
- 7510-7520 Coal 25% interbedded with silt and sand and shales as above, about 10% sand.
- 7520-7530 Shale black, carbonaceous, silty, coal 20% and 20% sand, v.f.g., white-tan and dirty gray, hard, tight, grades siltstone sandy, dark gray-dirty (20%).
- 7530-7540 Shale dark gray, hard, non calc., 40% and 20% sand, v.f.g., white, tight, grade tan and silty, 25% siltstone, sandy dark gray and dirty gray, 15% coal, occasional trace of good fluorescence, trace of pyrite and trace of limestone tan-gray, dense.
- 7540-7550 Coal 80%, remainder as last above.
- 7550-7570 Interbedded sands v.f.g., light gray, hard, tight, sandy siltstones, gray and shales black silty with 20-30% coal, trace of limestone, light gray, dense.
- 7570-7590 Coal with minor shales black, carbonaceous.
- 7590-7600 Coal 50% and 20% sand, white to dirty gray, tight, 30% sandy siltstone, dark gray.
- 7600-7610 Siltstone sandy, dark gray 50%, 30% coal and 20% shale black.
- 7610-7620 Siltstone dark gray, non calc., 70%, and 30% interbedded coal, black shale and tight, v.f.g., gray-white sands.
- 7620-7630 Sand, white, f.g., tight, non calc., grades to sandy silt dark gray and 50% shale dark gray, silty, non calc.
- 7630-7640 Sand, white-light gray, slightly calc., v.f.g., tight and sand f.g. to m.g., salt and pepper like, tight, some silty sand gray and dark gray, good fluorescence in sample.

- 7640-7650 Sand, v.f.g. to f.g., light gray-white, some salt and pepper like, some rather glauconitic, some may have slight porosity, good fluorescence, and coal from 7646-7650.
- 7650-7660 Sand, v.f.g., light green-gray, glassy like, looks very tight, good blue fluorescence, some sand f.g. to m.g., light gray-white, very glauconitic, appears tight with abundant tan and white clay fillings, some is slightly friable and may have some porosity.
- 7660-7670 Sand, v.f.g., white to m.g., salt and pepper like, very glauconitic, 20% coal.
- 7670-7680 Shale gray, silty, non calc., 10% sand and coal.
- 7680-7690 Shale gray silty and some dark gray shale, non calc.,
- 7690-7700 Sand, v.f.g. to f.g., light gray to white grades to dirty gray silty sand, non calc., no show, 50% shale gray silty and coal 25%.
- 7700-7710 Coal 45%, shale silty dark gray, non calc., 35%, and 20% sand as last above.
- 7710-7720 Sand, v.f.g. to f.g., light gray-white, tight, non calc., some grades silty and is tight, and 25% coal.
- 7720-7730 Sand, v.f.g., light gray-white, tight, to f.g. sand, gray to gray-white, salt and pepper like, both are non calc., the v.f.g. sand is glassy like in part, well compacted sub-angular grains, 30% coal and 20% shale black, carbonaceous and shaly, some dark gray silty to slightly sandy, non calc.
- 7730-7750 Interbedded sand, v.f.g., light gray and white, glassy like and sand f.g. to m.g., salt and pepper like, gray-white to dirty gray with coals, and shales dark gray, black, non calc., Probably 1/3 sand, 1/3 shale and 1/3 coal, trace of pyrite with coals.
- 7750-7760 Shale, dark gray silty and black carbonaceous, 10% coal and 20% sands as last above, shales and sands are probably interlaminated.
- 7760-7770 Shales, silty dark gray, grade sandy, non calc., few black silty shales, sand, white, v.f.g. to f.g., dirty gray and silty non calc., 25% and up to 10% coal.
- 7770-7780 Sand, white, v.f.g., non calc, tightly cemented, glassy appearing in part and sand v.f.g. to m.g., light gray to dirty gray silty, salt and pepper like, sub angular grains, non calc., tight, 20% shale silty dark gray, non calc., trace of bentonite white, and 20% coal.

- 7780-7790 Sands as above 70% and shale black silty, non calc., 20% and coal 10%. some bentonite white.
- 7790-7800 Sand, v.f.g. to f.g. with some m.g. sands, white, hard, tight, non calc., sub-angular grains well cemented, some white bentonite, some biotite present, courser grained sands are slightly salt and pepper like, some sands are gray, v.f.g., glassy appearing sands probably have paper thin shale and carbonaceous partings.
- 7800-7810 Sands as last above and 20% shale black, non calc., grade to dark gray in color, trace of coal
- 7810-7820 As last above.
- 7820-7830 As last above.
- 7830-7840 Sands, v.f.g. to m.g., white-light gray, salt and pepper appearing, hard, tight, well indurated, 25% shale black-dark gray, non calc.
- 7840-7850 Sands as last above and 40% shale black and dark gray and good show lignite block.

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

Salt Lake City 14, Utah

REPORT OF OPERATIONS AND WELL STATUS REPORT

State Utah County Uintah Field or Lease Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for

September, 1961.

Agent's address P. O. Box 473
Vernal, Utah

Company H. M. Byllesby and Company

Signed *Paul E. Byllesby*

Phone 1060

Agent's title Representative

State Lease No. _____ Federal Lease No. _____ Indian Lease No. _____ Fee & Pat.

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)
NW-NW-26	12S	20E	1					
C-NW-SW-5	13S	20E	2					See Enclosures #1, #2, #3
C-SW/4-23	13S	20E	3					

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

FILE IN DUPLICATE

*STATUS: F-Flowing P-Pumping GL-Gas Lift
SI-Shut In D-Dead
GI-Gas Injection TA-Temp. Aban.
WI-Water Injection

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

Salt Lake City 14, Utah

REPORT OF OPERATIONS AND WELL STATUS REPORT

State Utah County Uintah Field or Lease Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for October, 19 61

Agent's address P. O. Box 473 Company H. M. BYLLESBY & COMPANY

Vernal, Utah Signed Robert E. Lovington

Phone 1060 Agent's title Representative

State Lease No. _____ Federal Lease No. _____ Indian Lease No. _____ Fee & Pat.

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)
NW-NW-26	12S	20E	1					
C-NW-SW-5	13S	20E	2					See Enclosures #1, #2, #3
C-SW/4-23	13S	20E	3					

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

FILE IN DUPLICATE

*STATUS: F-Flowing P-Pumping GL-Gas Lift
SI-Shut In D-Dead
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STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

Salt Lake City 14, Utah

REPORT OF OPERATIONS AND WELL STATUS REPORT

State Utah County Uintah Field or Lease Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for November, 1961.

Agent's address P. O. Box 473 Company H. M. BYLLESBY & COMPANY
Vernal, Utah Signed _____

Phone 1060 Agent's title Representative

State Lease No. _____ Federal Lease No. _____ Indian Lease No. _____ Fee & Pat.

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)
NW-NW-26	12S	20E	1					
C-NW-SW-5	13S	20E	2					See Enclosures #1, #2, #3
C-SW/4-23	13S	20E	3					Note: The enclosures listed above consisted of the Swabbing and Flowing report for October November, 1961.

Confidential

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

FILE IN DUPLICATE

*STATUS: F-Flowing P-Pumping GL-Gas Lift
SI-Shut In D-Dead
GI-Gas Injection TA-Temp. Aban.
WI-Water Injection

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

Salt Lake City 14, Utah

REPORT OF OPERATIONS AND WELL STATUS REPORT

Confidential - Confidential

State UTAH County Uintah Field or Lease Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for

January, 19 62

Agent's address P.O. Box 473 Company H.M. Byllesby & Company

Vernal, Utah Signed *[Signature]*

Phone 1060 Agent's title Representative

State Lease No. _____ Federal Lease No. _____ Indian Lease No. _____ Fee & Pat.

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)
NW-NW-26	12S	20E	1					See attached remarks. Well shut in pending more favorable weather.
C-NW-SW-5	13S	20E	2					Testing by stop cocking. See attached data sheets.
C-SW-23	13S	20E	3					On pump. See attached reports.

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

FILE IN DUPLICATE

*STATUS: F-Flowing P-Pumping GL-Gas Lift
SI-Shut In D-Dead
GI-Gas Injection TA-Temp. Aban.
WI-Water Injection

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

Salt Lake City 14, Utah

REPORT OF OPERATIONS AND WELL STATUS REPORT
CONFIDENTIAL

State Utah County Uintah Field or Lease Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for

March, 1962

Agent's address P.O. Box 473 Company H. M. Byllesby & Company

Vernal, Utah Signed *Robert E. Boren*

Phone 1060 Agent's title Representative

State Lease No. _____ Federal Lease No. _____ Indian Lease No. _____ Fee & Pat.

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)
NW-NW 26	12 S	20 E	1	S.D.				Shut in for rework pending better weather.
C-NW-SW 5	12 S	20E	2	S.D.				Unable to reach wells to test due to snow and then deep mud.
C-SW-23	12 S	20E	3	S.D.				

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

FILE IN DUPLICATE

*STATUS: F-Flowing P-Pumping GL-Gas Lift
SI-Shut In D-Dead
GI-Gas Injection TA-Temp. Aban.
WI-Water Injection

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

Salt Lake City 14, Utah

REPORT OF OPERATIONS AND WELL STATUS REPORT

State Utah County Uintah Field or Lease Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for

April, 1962

Agent's address P. O. Box 473, Vernal, Utah

Company Caldwell & Covington

Signed [Signature]

Phone 1060

Agent's title Representative

State Lease No. _____ Federal Lease No. _____ Indian Lease No. _____ Fee & Pat.

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)
NW-NW 26	12S	20 E	1	SI	---	---	---	Shut in for rework
C-NW-SW 5	12S	20 E	2	SI	---	---	---	Shut in pending rework of roads.
C-SW-28	13S	20 E	3	SI	---	--	---	A/B.

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

FILE IN DUPLICATE

*STATUS: F-Flowing P-Pumping GL-Gas Lift
SI-Shut In D-Dead
GI-Gas Injection TA-Temp. Aban.
WI-Water Injection

SWABBING AND FLOWING REPORT

H. M. BYLLFSBY AND COMPANY

Well No. 2

1-23-62

Shut in to pressure up to unload. Tubing pressure 1775#.

1-24-62

Shut in to pressure up to unload. Tubing pressure 1800#.

1-25-62

Tubing pressure is 1850#. Shut in to pressure up.

1-26-62

Tubing pressure 1900#. Shut in to pressure up to unload.

1-27-62

Shut in to pressure up. Pressure on tubing 1950#.

POOR COPY

SWABBING AND FLOWING REPORT

H. M. BYLLESBY AND COMPANY WELL #2

1-19-62

Shut in pressure: 1025#. Shut in to pressure up for unloading.

1-20-62

Opened well at 9:10 a.m. with 1025# pressure. At 9:15 pressure dropped to 30#. Blew at 30# pressure 2 minutes. At 9:20 a.m. maximum unloading pressure was 800#. Held and unloaded for 5 minutes. At 9:25 a.m., well started blowing gas. Shut well in at 9:26 a.m. with 800# pressure. Shut well in at 9:31 a.m. with 1250# pressure.

1-21-62

Shut in to pressure up. Tubing pressure was 1700#.

1-22-62

Shut in pressure: 1750#.

POOR COPY

SWABING AND FLOWING REPORT

H. M. BYLLESBY AND COMPANY WELL #2

1-11-62

Well had 1750# pressure. It bled from 1750# to 150# pressure in five minutes. Started unloading oil and water. Max. unloading pressure: 500#. Bleed down to 200# pressure and held for 30 minutes. Shut in pressure 500#.

1-12-62

Shut in to pressure up. Pressure: 1,000#.

1-13-62

Shut in pressure: 1950#.

1-14-62

Shut in pressure: 1950#.

1-15-62

Pressuring up to unload. Tubing Pressure: 2,000#

1-16-62

Well pressure at 1:30 p. m. 2430#. Started to bleed off. Blew for 4-1/2 minutes at 2430#. Unloaded water 1/2 minute at 2460#. At 1:35 p.m. pressure was 2,200#. At 1:40 p.m. pressure was 340#. Pressure was 175# at 1:45 p.m. and at 1:50 p.m. the pressure was 125#. At 1:55 p.m. the pressure was 80# and at 2:00 p.m. pressure dropped to 60#. 2:30 p.m. pressure was 40# and 25# at 4:20 p.m. Well was shut in at 4:22 p.m. Pressure increased to 60# pressure at 4:27; 75# at 4:32; and 80# at 4:37 p.m. Shut in 15 minutes.

1-17-62

Shut in pressure: 1900#.

1-18-62

Shut in to pressure up to unload water. Pressure: 2,000#.

1-19-62

Blew well down on 1-18-62. Pressure at 10:00 a.m. this date was 1,000#.

SWABBING AND FLOWING REPORT

H. M. BYLLESBY AND COMPANY WELL #2

1-8-62

Shut in to build up pressure to enable it to unload. Pressure at 1700#.

1-9-62

Tubing pressure 1700#. Shut in to pressure up.

1-10-62

Well shut in to pressure up to enable well to unload.

SWABBING AND FLOWING REPORT

H. M. BYLLESBY AND COMPANY WELL #2

1-4-62

Shut in pressure: 1850#.

1-5-62

Well shut in to pressure up to unload water and oil. Pressure: 1850#.

1-6-62

Bled well at 1950# for 8 minutes then started unloading water. Unloaded at 1950# pressure for 7 minutes then pressure dropped to 300# in five minutes and held for 10 minutes. Shut well in at 300# pressure.

1-7-62

Shut in after flowing well down yesterday. Tubing pressure: 1550# at 7:45 a.m.

POOR COPY

SWABBING AND FLOWING REPORT
BYLLESBY WELL #2

12-24-61 through 12-25-61

Well shut in.

12-26-61

Tubing pressure 1200#. Well shut in.

12-27-61

Well bled down from 1375# pressure to 100# in ten minutes. Started unloading. At 100# pressure, unloaded oil and water for 8 minutes. At 500# maximum unloading pressure. Shut in with 400# pressure.

12-28-61

Shut in with 1700# on tubing.

12-29-61

Shut in pressure: 1725#.

12-30-61

1725# PSI

SWABBING AND FLOWING REPORT

H. M. BYLLESBY WELL #2

12-16-61

Well Shut in.

12-17-61

Pressure at 1,000#. Well shut in.

12-18-61

Shut in.

12-19-61

Well shut in.

12-20-61

Shut in.

12-21-61

Bled from 1125# pressure to 0# in 8 minutes. Started unloading. Maximum unloading pressure 850#. It took 3 minutes to reach 850# pressure. Bled off in 10 minutes, maximum time.

12-22-61

Shut in.

12-23-61

Well shut in.

POOR COPY

SWABBING AND FLOWING
REPORT

H. M. BYLLEFSBY WELL #2

12-12-61

Shut in.

12-13-61

Shut in. Tubing pressure: 1600#

12-14-61

Casing pressure: 1625#. Well blew down to 0# in 5 minutes. Started unloading. Maximum unload pressure: 850#. Blew to 9# in 30 minutes.

12-15-61

Shut in. Tubing pressure: 825#

SWABBING AND FLOWING REPORT

H. M. BYLLESBY AND COMPANY WELL #2

12-8-61

Shut in

12-9-61

Shut in

12-10-61

Shut in.

12-11-61

Tubing pressure: 1,000#. Blew to 0# in 5 minutes. Unloaded water

SWABBING AND FLOWING

H. M. BYLLESBY AND COMPANY
Well Number 2

12-2-61 thru 12-3-61

Well shut in.

12-4-61

Tubing pressure 1200#. Blew five minutes. Unloaded water.

12-5-61

Shut in for pressure build-up.

12-6-61

2:30 p.m.: Tubing pressure, 1775#; 2:35 p.m. Tubing pressure 600#; 2:40 p.m. Tubing pressure, 275#; 2:45 p.m. Tubing pressure, 175#; 2:50 p.m. Tubing pressure 100#. 2:55 p.m. Tubing pressure 50#; 3:00 p.m. Tubing pressure 25#; 3:05 p.m. Tubing pressure 10#; at 3:10 p.m. tubing pressure reached 0#.

12-7-61

Well shut in.

SWABBING AND FLOWING REPORT

H. M. BYLLFSBY WELL #2

11-30-61

Shut in for pressure build-up.

12-1-61

Tubing pressure 1000#. Blew to 200# in 4 minutes. Unloaded water 1 minute. S.I.
Shut in pressure: 1200#.

SWABBING & FLOWING
REPORT

H. M. BYLLESBY WELL #2

11-27-61

Shut in.

11-28-61

Tubing pressure: 1400#. Blew to 250# in 5 minutes. Unloaded.

11-29-61

Shut in for pressure build-up.

SWABBING AND FLOWING REPORT

H. M. BYLLESBY WELL #2

November 15, 1961 through November 24, 1961

Shut in for pressure build-up. Tubing pressure averaging 925#.
Bled to 50# in 4 minutes. Unloaded water for 1 minute. Maximum unloading
pressure: 875#. Shut in pressure: 1200#. Flare for 1 hour at 25#.

November 25, 1961

Shut in for pressure build-up.

November 26, 1961

Tubing pressure 1050#. Blew 30 minutes. Shut in with 200# pressure on gauge.
Did not unload any water.

November 11, 1961 (continued)

for water to get up. Flowed water at 450# pressure for 7 minutes. Very hard flow. Pressure came up to 750#. Still making some mist for 3 minutes. Well made gas for 25 minutes at 500#. Shut well in at 1:45 p. m. Pressure: 475#. Pressure rise was 275 # or shut in pressure was 750#.

November 12, 1961

Shut in.

November 13, 1961

Well shut in for pressure buildup.

November 14, 1961

Tubing pressure: 1775#. Opened well at 1:35 p.m. Well made strong flow of gas to 1:42 p.m. Pressure came down to 150#. Fluid flowed for 1 minute. Pressure: 900# at 1:43 p.m. Well made heavy mist at 700# at 1:45 p.m. At 1:48 p.m., well was making gas at 500# pressure. 1:50 p.m. Pressure: 300#. 1:52 p.m. Pressure: 225#. 1:55 p.m. Pressure 150#. 2:00 p.m. pressure: 100#. 2:05 pressure: 75# 2:10 pressure 50#. 2:15 p.m. pressure 50#. 2:20 pressure 40#. 2:25 p.m. pressure: 35#. 2:30 p.m. pressure 35# 2:35 p.m. pressure 30# and well was shut in for 5 minute buildup. It reached 100# and was still moving up when well was shut in for 24 hours.

November 15, 1961

H. M. BYLLESBY WELL #2

November 3, 1961

Well shut in for pressure buildup.

November 4, 1961

6:37 a.m. Tubing pressure 1250#.

6:41 " " " 0#

6:51 " " " 0#. Well shut in.

November 5, 1961

Tubing pressure: 975#.

November 6, 1961

Tubing pressure: 1175#.

November 7, 1961

7:15 a.m. Tubing pressure 1175#.

7:18 " Blew down to 0#

7:19 " Started unloading. Maximum unloading pressure: 100#

7:21 " Well went dead.

November 8, 1961

Tubing pressure: 1275#.

November 9, 1961

Shut in pressure 1250#.

November 10, 1961

Shut in for build up. Tubing pressure 1250#.

November 11, 1961

1250# pressure. Opened well at 1:00 p.m. Well blew down in 5 minutes. Took 5 min.

H.M. BYLLESBY WELL #2-10-18-61

Tubing pressure: 1775#. Opened well. Fluid up in 5 minutes. Choked well back to catch sample. Very weak emulsion. Separated into 45% water, 45% distillate. Remaining 10% was a layer of milky emulsion between the water and distillate. Finished unloading well. Shut in with 1,000 p.s.i. Tubing pressure built up to 1200 p.s.i. immediately.

10-23-61

10:40 a.m. Tubing pressure was 1700 p.s.i. Flowed well through tubing. Fluid up in 5 minutes. Tubing pressure 200 p.s.i. Unloaded fluid for 1 minute. Tubing pressure rose to 900 p.s.i. Flowed well for 3 hours. Tubing pressure 20 p.s.i. Gas TSTM. Shut in.

10-28-61

4:00 p.m. Tubing pressure 1175#. Opened tubing; fluid up in 7 minutes. Tubing pressure 25 p.s.i. Flowed distillate for 1 minute. Flowed water for 3 minutes. Tubing pressure rose to 700 p.s.i. after unloading. Shut in at 600 p.s.i. Rose to 1,000 p.s.i. in 1 minute.
10-

10-29-61

1:45 p.m. Tubing pressure 1530#. Opened well. Fluid up in 4 minutes. Flowed distillate and water for 1 minute. Tubing pressure rose from 200 to 700 p.s.i. after unloading. Flowed well for 35 minutes after unloading. Pressure dropped from 700 to 30 p.s.i. Shut in.

10-30-61 to 10-31-61

Shut in.

Note: 10-19-61 to 10-23-61 Well #2 was shut in
10-24-61 to 10-28-61 Well #2 was shut in

SWABBING OR FLOWING RECORD

10-2-61

Shut in for pressure build-up.

10-3-61

Tubing pressure: 1475# Blew down to 0# in 6 minutes Unloaded water for 2 minutes Maximum unloading pressure: 800# Shut in

10-4-61

Shut in

10-5-61

Tubing Pressure: 1575#. Blew down. Started unloading in 6 minutes. Unloaded water for 1 minute. Shut in Pressure 1100#.

10-6-61

Shut in for pressure build-up.

10-7-61

Shut in

10-8-61

Shut in

10-9-61

Shut in

10-10-61

Casing Pressure: 800#. Tubing Pressure: 400#. Blew casing down to 0# in 30 minutes through 1" choke. Kept open 1 hour, would not unload.

10-11-61

Shut in. Pressure build-up.

10-12-61

Shut in

10-13-61

Shut in

10-14-61

Shut in

10-15-61

Shut in

10-16-61

Shut in

10-17-61

Shut in pressure 1825 at 1256. Bled down to 300# Started unloading. Maximum unloading pressure 800# at 12:45 Shut in 1000#.

9-15-61

8:05 Tubing pressure: 1500#. 8:09, Tubing pressure: 0#. 9:03, Tubing pressure: 700#. Maximum unloading pressure. 9:04 Tubing pressure: 1200#. Shut in pressure.

9-16-61

9:03 Shut in pressure: 1475#
9:36 0# pressure.
9:37 Unloading pressure: 800#.
9:40 Shut in pressure 1075#

9-19-61

Tubing pressure: 1600#. Blew to 0# in 5 minutes. Unloaded approximately 2bbls water. Shut in pressure 1200#. Put on offace tester and ran 1 hr. test.

9-21-61

Blew to 0# in 4 minutes from tubing pressure of 1000#. Unloaded water for 2 minutes. Shut in pressure: 1150#.

9-21-61 to 9-24-61 Well Shut in Road Flooded out.

9-25-61

Tubing pressure: 1700#. Blew to 0# in 5 minutes. Unloaded water for 1 minute. Shut in pressure: 1200#.

9-26-61

Shut in. Pressure 1700#

9-27-61

Tubing pressure: 1825#. Blew to 200# in 6 minutes. Unloaded water for 1 minute. Shut in.

9-28-61

Shut in for pressure build up.

9-29-61

Shut in.

9-30-61

Tubing pressure: 1775# Blew to 100# in 5 minutes. Unloaded water for 1 minutes. Max. unloading pressure 600#. Kept open 30 minutes. Pressure 300# Shut in.

July 23, 1961

Spliced on 2000' sand line. Started swabbing fluid at 2800' after being shut down for the night. Swabbed well to 7000'. Blew in and unloaded; pulling swab from bottom. Shut in for night 6:00 P.M.

July 24, 1961

Started swabbing at 8:00 A.M. fluid at 3600'. Made two pulls with swab. Well unloaded approximately 10 bbls water. Made run from bottom with swab, had 200' water. Shut well in for pressure build up. Moved unit to #1.

ROBERT E. COVINGTON
CRAIG CALDWELL

SWABBING OR FLOWING RECORD

PHONE 106

H.M. BYLLESBY WFL # 2

Date 7-31-61

Time ____ M	TBG Press	Choke	Gas M Ft.
8:00 AM	200#		Shut in 12 hours.
8:30 AM	500#		Pull swab well unloaded.
8:30 AM	500#		Opened up on 8/64 choke.
7:00 PM	190#		Shut in.

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2 BYLLESBY WELL
July 12, 1961

Tubing pressure 450#. Casing pressure 875#. Well blew down to 0# on both sides in 30 minutes and did not unload.

H. M. BYLLESBY WELL NO. 2

DATE 7-13-61

<u>TIME</u> <u>A M</u>	<u>CSG</u> <u>PRESS</u>	<u>TBG</u> <u>PRESS</u>	
10:30	475	150	Opened up.
10:32	475	0	Poured down tbg 1 gal G-2.
10:37	400	350	Rocked csg pressure into tbg.
10:39	400	0	Opened up tbg & csg.
10:50	0	0	Poured 1 gal G-2 down csg. Shut well in.

WOULD NOT UNLOAD.

H. M. BYLLESBY WELL NO. 2

DATE 7-14-61

11:03	240	50	Equalized tbg & csg.
11:05	240	240	Poured 1 gal G-2 down tbg & lit flare.
11:10	240	100	Opened tbg.
11:12		50	
11:13		0	Dead
11:30	175	0	Rocked tbg twice but would not unload.

2 BYLLESBY WELL
July 22, 1961

Tripped tubing. Set packer. Ready to start swabbing.

July 22, 1961

Pulled off BOP and installed well head. Rigged up to swab. Could not set swabbing unit up so used both rigs to swab with until 2 P.M. Swabbed well down to 5000'. Rigged down tubing rig and moved to #1. Continued swabbing with unit to 8:00 P.M. Line fowled up on last pull and kinked last 1000' line in hole.

July 22, 1961, Addenda Report

This report supersedes short report of same date.

Rigged up R & R workover rig. Installed Shaeffer 6", 900 blow out preventers, hydraulically operated. Pulled out of hole with tubing. Strapped out. Laid down Guiberson tubing hanger; ran back in with 38 stands tubing; picked up Baker model "R" packer. Ran in hole with 93 stands; landed tubing at 8225, K.B. measurement, with packer set at 5337 feet. (10 feet difference in elevation between K.B. and ground). Shut well in for night.

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H.M. BYLLESBY & CO. WELL #2 July, 1961 Work

Well # 2 7-1-61

Swabbed well to 8,000. Well blew in and unloaded water and distillate. Blew hard for 2 hours then leveled off with a small flare. Continued swabbing.

Well # 2 7-2-61

Continued swabbing until 3:00 p.m. Water had depleted and had small steady gas flare. Shut well in & moved swabbing unit to well # 1.

Well # 2 7-3-61

Tubing pressure 800#. Casing pressure 100#. Hooked tubing pressure in to casing pressure casing up to 500#. This left tubing pressure at 500# opened tubing to flow line. Blew dry gas for 20 minutes. Pressure decreased to 200#. Then started blowing a water mist and put fire out. Did not unload any amount of water. Final flow in 1 1/2 hour 0# on tubing. Had good blow on flow line.

July 5, 1961

Shut in for pressure. Build up - casing pressure zero. Sliding sleeve is closed. Tubing pressure 1100 lbs.

July 6, 1961

Moved Barker Well Service rig from #1 to #2 and rigged up. Loaded hole with fresh water. Removed well head and installed B.O.P. Shaffer 6" manual control. Unseated Baker Model R packer. Started out of hole. Had 30 stands out. Well started blowing in. Circulated hole for 2 hours. Circulating out gas pockets. 8 A.M. 7-7-61 continuing to pull out of hole.

2 BYLLESBY WELL

July 7, 1961

Finished pulling out of hole. Layed down model R packer and sliding sleeve. Picked up and ran at 5894' Geiberson type A.C. Mechanical tubing anchor. Ran in hole. Striped off BOPS. Installed well head. Rigged up swab and started swabbing. Swabbed well to 6500'. Making some gas. Landed tubing at 8161'. Swabbing.

July 8, 1961

Cl.	1900 ppm
Ca.	240 ppm
CO3	none
HCO3	370 ppm
Ph	6.8

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POOR COPY

H. M. BYLL BY WELL # 2

Time TBG
M Press

Date 8-14-61

8:25 AM 1100# Shut in 12 hours.
 8:30 0#
 8:32 Water up.
 8:34 650# Max. unloading pressure.
 8:35 900# Shut in.
 7:10 PM 1125# Shut in 10 3/4 hours.
 7:16 0#
 7:16 1/2 650# Max. unloading pressure.
 7:20 875# Shut in pressure.
 Shut in 12 hours.
 7:10 AM 1025#
 7:15 0#
 7:16 Water Up.
 7:18 600# Max. unloading pressure.
 7:20 875# Shut in pressure.

Date 8-15-61

6:15 AM 1100#
 6:20 0#
 6:22 650# Max. unloading pressure.
 6:25 850# Shut in.
 5:26 PM 1075#
 5:31 0#
 5:32
 5:33 600# Max. unloading pressure.
 5:36 900# Shut in.

Date 8-16-61

6:15 AM 1125#
 6:21 0#
 6:23 650# Maximum unloading.
 6:25 975# Shut in.
 5:30 PM 1100#
 5:35 0#
 5:35 600# Maximum unloading.
 5:40 925# Shut in.

Date 8-17-61

6:30 AM 1175#
 6:36 0#
 6:38 615# Maximum
 6:42 900# Shut in.
 6:15 PM 1200#
 6:21 0#
 6:24 900# Maximum
 6:30 1200# Shut in.

Well shut in from 8/18-8/22

Date 8-23-61

6:00 AM 1475#
 7:00 0#
 7:07 900# Maximum unloading.
 7:10 1035# Shut in.

Well shut in from 8/22-8/29 for testing. Pressure 1430#.

8/29/61 Well being tested from 8/29-9/1 by Dave Johnson. Shut in for pressure build up.

40

POOR COPY

SWABBING OR FLOWING RECORD

H. M. BYLLESBY WELL #2

Date 8-11-61

Time M	TBG Press	
6:10	1125#	
6:15	0#	
6:16		Started unloading.
6:18	600#	Max. unloading pressure.
6:20	900#	Shut in.
1:55	1100#	
2:00	0#	Fluid up - diesel or distillate followed by water.
2:02	500#	Solid fluid stopped - heavy mist. Started - SI.
2:03	700#	
2:04	700#	Opened well - very light mist.
2:10	150#	Still flowing very light mist - SI.
2:15	350#	
5:15	450#	Opened well.
5:20	0#	
5:23		Started unloading water.
5:24	200#	Solid water turned to mist.
5:27	375#	

Date 8-12-61

7:10 AM	500#	Shut in 13 hours after well was blown completely down.
7:25	0#	Would not unload.
9:25	700#	
9:26	650#	Max. unloading pressure.
9:30	500#	Shut in.
7:34 PM	975#	Shut in 10 hours.
7:39	0#	
7:40	650#	Max. unloading pressure.
7:42	850#	Shut in.

Date 8-13-61

7:15 AM	1125#	Shut in 12 hours.
7:20	0#	
7:22	650#	Max. unloading pressure.
7:24	850#	Shut in.
5:22	1100#	Shut in 10 hours.
5:26	0#	
5:27		Water up. Unloading.
5:29	600#	Max. unloading.
5:30	800#	Shut in.

POOR COPY

Date 8-8-61

2:26 PM	1225#	Shut in 22 hours.
2:30	0#	Start imloading solid water 1 minute.
2:31	700#	Max. unloading pressure.
2:33	1000#	Shut in 1000#.
2:40	1000#	Start test 1/2" orifice 1mm or 150#
2:55	885#	" " "
3:10	750#	" " "
3:25	590#	" " "
3:40	435#	" " "
3:55	275#	" " "
4:05	150#	1 hr & " " "
		25 minutes shut in.

Date 8-9-61

8:35 AM	500#	Shut in 16 hours after test.
8:40	0#	
8:50		Start unloading.
8:59	850#	Shut in.
5:35	1000#	
5:40	0#	Start unloading.
5:43	650#	Max. unloading pressure.
5:50	850#	Shut in.

Date 8-10-61

6:15	1100#	
6:20	0#	
6:21		Start unloading.
6:23	650#	Max. unloading pressure.
6:24	850#	Shut in.
6:15	1075#	
6:21	0#	
6:22		Start unloading.
6:23	625#	Max. unloading pressure.
6:24	875#	Shut in.

32

Stating letter copy

Confidential

H.M. BYLLESBY & COMPANY WELL #2

August, 1961

Date 8-1-61

11:15	550#	Shut in press.	
11:20	0#	Open 5 minutes.	1"
11:26	650#	Shut in after unloading.	
11:40	650#	Start test.	1/2" orifice 1 mm
11:55	500#		" "
12:10	350#		" "
12:25	190#		" "

Shut in at 12:25 with 190# on well head.

Date 8-2-61

6:00 AM	400#	Shut in press.	
6:05 AM	0#	Blew down.	1"
7:00 AM	0#	Started unloading.	
7:10 AM	500#	After unloading shut in.	
1:00 PM	700#		
1:05	0#	Opened up blew down.	
1:15		Unloading.	
1:20	600#	Shut in after unloading.	

Date 8-3-61

12:30 AM	700#	Shut in press.	
12:37	0#	Blew down.	
12:45	600#	Unloaded and shut in.	
8:00 AM	675#		
8:05	0#	Blew down.	
8:15	540#	Shut in after unloading.	
2:55	625#		
3:00	0#	Blew down.	
3:05	400#	Unloaded.	
3:12	500#	Shut in after unloading.	

H. M. BYLLESBY WELL # 2

Date 8-4-61

Time ___ M	TBG Press		Choke	Gas M Ft.
11:10	850#	Opened up.		
11:16	0#			
11:17	200#	Unloading.		
11:19	600#	Unloading.		
11:20	850#	Start test	1/2"	1 mm
11:35	740#			
11:50	600#		"	"
12:05	425#		"	"
12:20	275#		"	"
12:28	190#		"	"

5/2

Time M	TBG Press	
9:45	675#	Shut in pressure.
9:52	0#	Blew down.
10:00	600#	Unloading.
10:05	875#	Shut in after unloading.
4:05 PM	975#	Shut in 6 hours.
4:10	0#	
4:12	500#	Started to unload.
4:15	725#	Shut in.
10:05 PM	950#	Shut in 6 hours.
10:09	0#	
10:11		Started to unload.
10:15	550#	Max. unloading pressure
10:18	825#	Shut in.
6:00	1025#	Shut in 8 hours.
6:04	0#	
6:06		Started to unload.
6:08	600#	Max. unloading pressure
6:12	925#	Shut in.

Date 8-6-61

8:25 AM	1025#	Shut in.
8:33	0#	
8:35	550#	Max. unloading pressure
8:38	850#	Shut in.
3:40	1150#	
3:45	0#	
3:50	600#	Max. unloading pressure.
3:53	800#	Shut in.

Date 8-7-61

9:25 AM	1225#	Shut in 15 hours.
9:30	200#	
9:32	700#	Max. unloading pressure.
9:35	825#	Shut in pressure.
4:23 PM	1050#	
4:28	0#	
4:30	600#	Max. unloading pressure.
4:32	800#	Shut in pressure.

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May 9, 1963

Caldwell & Covington
P. O. Box 473
Vernal, Utah

Re: Well No. Byllesby #1
Sec. 26, T. 12 S, R. 20 E.,
Uintah County, Utah

Well No. Byllesby #2
Sec. 5, T. 13 S, R. 20 E.,
Uintah County, Utah

Gentlemen:

This letter is to advise you that the well logs for the above mentioned wells are due and have not been filed with this Commission as required by our rules and regulations.

Please complete the enclosed Form OGOC-3, "Log of Oil or Gas Well", in duplicate and forward them to this office as soon as possible. Legible copies of the U. S. Geological Survey Form 9-330 may be used in lieu of our forms.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLARELLA N. PECK
RECORDS CLERK

enp

POOR COPY

June 21, 1963

Caldwell & Covington
P. O. Box 473
Vernal, Utah

Re: Well No. Byliesby #1
Sec. 26, T. 12 S, R. 20 E.,
Uintah County, Utah

Well No. Byliesby #2
Sec. 5, T. 13 S, R. 20 E.,
Uintah County, Utah

Gentlemen:

Reference is made to our letter of May 9, 1963. As of this date we still have not received the well logs for the above mentioned wells, that are over-due.

Please complete the enclosed Form OGCC-3, "Log of Oil or Gas Well", in duplicate and forward them to this office as soon as possible. Legible copies of the U. S. Geological Survey Form 9-330 may be used in lieu of our forms.

Your immediate attention to this matter will be greatly appreciated.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLARELLA N. FECK
RECORDS CLERK

cnp

Encl. (Forms)

June 29, 1963

Mr. Chandler Bylesby
Denver Club Building
Denver 2, Colorado

Dear Mr. Bylesby:

Enclosed, please find two letters I wrote to Mr. Caldwell and Mr. Covington of Vernal, Utah, which were returned by Mr. Covington.

We would appreciate your assistance in obtaining the well logs for the #1 and #2 Wells and the electric and/or radioactivity logs, along with the well log for the #3 Well.

Please complete the enclosed Form OGOC-3, "Log of Oil or Gas Well", in duplicate and forward them to this office as soon as possible. Legible copies of the U. S. Geological Survey Form 9-330 may be used in lieu of our forms.

Also, please indicate if you want this information held confidential. Thank you for your cooperation in this request.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLARELLA N. PECK
RECORDS CLERK

cnp

status changes.

- 43-047 ✓ 15102 from SOW to PA 4/80 q, ed 13-²⁰25-05 #2 Byllesby.
-22-48 ✓ 20448 from WSW to PA. 2/87 6-25-36 Rogan et al #1
no file
~~10509 from WSW to PA 10/86 7-23-9 Pearl Proactants #3.~~
led in Prod ✓ 30579. from TA to PA 9/86 8-21-33 Duncan 7d #33 #8
✓ 30714 from SOW to WSW 4/86 5-23-18 Cat Creek 18-1A.
✓ 15375 from SOW to WSW 11/86 10-21-16 Uintah Unit #1
✓ 15376 from PA to WSW 12/86 10-21-23. Uintah Unit #4
✓ 15275 from POW to WSW 10/86 7-23-26. RWU 16S.
✓ 31473 from PA to SOW 8-18-26 Parrett 7d 16-26

from Carol Kubly 5 Oct 87
789-1388

12-11-87

JOHN - HERE ARE THE SILES FOR THE ABOVE LIST FROM CAROL.

CAN I USE THIS LIST TO CHANGE THE STATUS OR SHD WE REQUEST ADD'L INFO FROM THE OPERATORS?

PLEASE ADVISE!

Vicky C

VICKY,

I'M NOT SURE OF THE REASON
THESE WERE MIND BLEN, BUT
QUESTIONS OF ACCOUNTS ARE
APPROPRIATE. I DON'T SEE ANY
FILE EVIDENCE THAT SHOULD
BE OBTAINING THE FILE NUMBER A
NEW NUMBER, BUT WE SHOULD REVIEW
THE NECESSARY DOCUMENTS AND
THINK THE CHANGES IS GOOD IN
THE CASE.

I PRESUME YOU'LL GET IN TO
LOOKING IN QUESTION.

UNTIL WE GO THROUGH THE OIL WELL
WELLS, THESE MIGHT AS WELL STAY
WITH THAT GROUP, UNLESS OTHER FACTS
REQUIRE OTHERWISE.

WPC
2-2-87



UTAH
NATURAL RESOURCES

To: JOHN BAZA VIA Norm

From: VICKY CARNEY

Date: 1-29-87

- For your information and file.
- For necessary action.
- Reply directly to origin with a copy to this office.
- Please draft a reply for signature of _____

_____ and
return by the following date _____

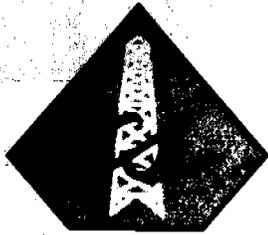
Other WHO HAS BOND?
SHUT-IN STATUS
UNKNOWN OPERATOR

up onbe up

Well # 3

has been renamed
Agency Draw 23-2A
and is now operated
by del Rio

1-29 ✓



Collis P. Chandler, Jr., President

CHANDLER-SIMPSON, INC.

OIL EXPLORATION AND PRODUCTION • DENVER CLUB BUILDING • DENVER, COLORADO

JULY 15, 1963

STATE OF UTAH
OIL AND GAS CONSERVATION COMMISSION
SALT LAKE CITY, UTAH

GENTLEMEN

PLEASE FIND ENCLOSED COPIES OF ELECTRICAL SURVEYS, GEOLOGICAL REPORTS AND COMPLETION REPORTS ON THE NO. 1, NO. 2 AND NO. 3 BYLLESBY FEE WELLS. THIS IS ALL OF THE DATA WHICH WE HAVE ON THESE TESTS. DUE TO THE GREAT AMOUNT OF WORK ON THESE THREE WELLS, WE ARE ENCLOSED THESE REPORTS, RATHER THAN FILING STATE OR FEDERAL FORMS.

THE WELLS ARE STILL IN AN INDEFINITE STATUS AND, AS OF YET, HAVE NOT BEEN COMPLETED AS PRODUCERS OR DRY HOLES. AT THE PRESENT TIME, THE WELLS ARE SHUT IN AND EQUIPPED AS FOLLOWS -

WELL NO. 1 - EQUIPPED WITH 2 INCH TUBING AND A CAMERON FLANGED TUBING HANGER. THE WELL IS SHUT IN WITH 2 INCH CAMERON VALVES.

WELL NO. 2 - EQUIPPED WITH 2 1-2 INCH TUBING WITH CAMERON FLANGED TUBING HANGER. WELL IS SHUT IN WITH CAMERON VALVES.

WELL NO. 3 - EQUIPPED WITH 2 STRINGS OF 2 INCH TUBING WITH CAMERON DUAL-COMPLETION TUBING HANGER. ONE STRING IS SHUT IN WITH 2 INCH CAMERON AND ORBIT, THE OTHER STRING OF TUBING IS EQUIPPED TO PUMP. ALL SURFACE EQUIPMENT ON THE WELL IS SHUT IN AT THE PRESENT TIME.

WE DO NOT ANTICIPATE ANY FURTHER OPERATIONS ON THESE WELLS IN THE NEAR FUTURE.

YOURS VERY TRULY,

CHANDLER-SIMPSON, INC.

E. B. MAKI
PETROLEUM ENGINEER

EBM-ss
ENCLS.

M. C. HOFFMAN
PETROLEUM CONSULTANT
1474 DENVER CLUB BLDG.
DENVER, COLORADO 80202

September 3, 1965

Mr. Paul W. Burchell, Chief Engineer
OIL & GAS CONSERVATION COMMISSION
348 E. S. Temple
Salt Lake City, Utah

Re: Byllesby Wells No. 1, 2 and 3 - 20,000 acre fee
block
No. 1 - NW NW Sec. 26, T12S, R20E, Uintah County
No. 2 - NE SW Sec. 5, T13S, R20E, Uintah County
No. 3 - SE NW SW Sec. 23, T13S, R20E, Uintah

Dear Mr. Burchell:

Confirming our telephone conversation today, we have had a survey made of the cost of pulling casing and completely abandoning these wells. Also, the cost of leaving casing in the hole and leaving the well to your specifications. As discussed by phone, the cost of doing this is extremely high, due to the isolated location and the necessary road building in order to do the work.

In addition, Advance Ross Corporation (successor to H. M. Byllesby Co.) has a very substantial investment in these wells and prefers to hold them in their present condition, in the hopes that some future fracking or other method, such as atomic blast may come along in the near future that would make it possible to make commercial gas wells out of these wells.

I am sure you have complete files in your possession on the condition of these wells, but am attaching a schematic drawing of each one showing its condition. These are correct except that the tubing was removed from Byllesby Well #3. All wells have high pressure valves and christmas trees installed, and were inspected approximately one year ago and there was no leakage whatever at the surface.

This letter is therefore a request for your concurrence in leaving the wells in the present condition with the understanding that the bond will be maintained and that these wells will be inspected from time to time to be sure there is no change in surface conditions.

Your approval would be very much appreciated and, as I discussed with you on the phone, if I have an opportunity to make an inspection trip in the near future, I will notify you and hope that you can go to the wells with me.

APPROVED BY UTAH OIL AND GAS
CONSERVATION COMMISSION

DATE: 9-7-65

Paul W. Burchell
Chief Petroleum Engineer

Yours very truly,

M. C. Hoffman
M. C. Hoffman For -
ADVANCE ROSS CORPORATION

Enc. 3

UNION PACIFIC RESOURCES

COMPANY: UPRIC UT ACCOUNT # _____ SUSPENSE DATE: 4-18-88

WELL NAME: #2 BYUESBY

API #: 4304715102

TELEPHONE CONTACT DOCUMENTATION

CONTACT NAME: ROBERT ~~SMITH~~ COVINGTON STEVE MARTENS SEC, TWP, RNG: 5 13S 20E

CONTACT TELEPHONE NO.: 1-789-3233 531-9671

SUBJECT: STATUS OF WELL?

UNION PACIFIC RESOURCES
PLUGGED WELL
UPRIC # 307-362-5641

KEITH
will call Denver
office + have
call back 2-22-88 8:30

(Use attachments if necessary)

RESULTS: 3-7-88 8:35 WILL CALL BACK

10:15 KEITH CALLED & SAID HE CONTACTED EVERYONE HE COULD THINK OF & NOONE WAS FAMILIAR WITH THIS WELL NOR COULD THEY FIND ANYTHING ABOUT IT. CALLED STEVE MARTENS AGAIN. HE SAID UP RESOURCES TOOK OVER THE WHOLE AGENCY DRAW FIELD AND WERE GOING TO

PLUS EVERYTHING. SUGGESTED WE CONTACT DAN TAREINGTON WHO IS THE ENGINEER OR GEOLOGIST AT UP RESOURCES.

CONTACTED BY: _____ 303-721-2612

DATE: 4-11-88 1:00 DAN WILL RETURN CALL.

4-11-88 3:15 DAN WILL SEND PA REPORT UC-DOGIM

UNION PACIFIC RESOURCES

COMPANY: PRC RIO UT ACCOUNT # _____ SUSPENSE DATE: 4-18-88

WELL NAME: #2 BYUESBY

API #: 4304715102

TELEPHONE CONTACT DOCUMENTATION

CONTACT NAME: ROBERT ~~SHU~~ COVINGTON STEVE MARTENS SEC, TRF, RNG: 5 13S 20E

CONTACT TELEPHONE NO.: 1-789-3233 531-9671

SUBJECT: STATUS OF WELL?

UNION PACIFIC
RESOURCES
PLUGGED WELL
1-307-362-5641

KEITH
will call Denver
office + have someone
call back
2-22-88 8:30

(Use attachments if necessary)

RESULTS: 3-7-88 8:35 WILL CALL BACK

10:15 KEITH CALLED & SAID HE CONTACTED EVERYONE HE COULD THINK OF & NOONE WAS FAMILIAR WITH THIS WELL NOR COULD THEY FIND ANYTHING ABOUT IT. CALLED STEVE MARTENS AGAIN. HE SAID UP RESOURCES TOOK OVER THE WHOLE AGENCY DRAW FIELD AND WERE GOING TO PLUS EVERYTHING. (Use attachments if necessary) SUGGESTED WE CONTACT DAN TARKINGTON WHO IS THE ENGINEER OR GEOLOGIST AT UP RESOURCES.

CONTACTED BY: _____ 303-721-2612

DATE: 4-11-88 1:00 DAN WILL RETURN CALL.

4-11-88 3:15 DAN WILL SEND PA REPORT UC-DOGm

TUN -

10-5-87 CAROL KUBLY
SAID THIS WELL WAS PA.
JOHN SAID VERIFY WITH THE
OPERATOR & REQUEST PA
REPORT.

PLEASE REVIEW ATTACHED
& ADVISE NEXT ACTION.
UIC

7-13-88

COMPANY: UNION PACIFIC RESOURCES UT ACCOUNT # U9465 SUSPENSE DATE: 8-12-88

WELL NAME: #2 BYLLESBY

API #: 43 047 1510 2

TELEPHONE CONTACT DOCUMENTATION

SEC, TWP, RNG: 5 13S 20E

CONTACT NAME: TROY SCHWIDLER

CONTACT TELEPHONE NO.: 1-303-721-2743

SUBJECT: STATUS OF WELL

*10:45 7-22-88
Not in land
deal with the
around the last
couple weeks to be
Aug. the area & well
in check & status of well
no any info they
can come up with*

(Use attachments if necessary)

RESULTS: TROY SAID WHEN HE PLUGGED ANOTHER WELL IN SEC 5, HE
VAGUELY REMEMBERED ANOTHER MARKER IN THAT AREA. HE
WAS NOT ACQUAINTED WITH THIS WELL, BUT WILL
CHECK IT OUT & GET BACK WITH ME.

7-22-88 10:05 Troy will call back.

10:15 Troy said they are going to be in this area in
a while to plug another well. He will check the location
then.

(Use attachments if necessary)

CONTACTED BY: UC

DATE: 8-19-88

COMPANY: UNION PACIFIC RESOURCES UT ACCOUNT # U9465 SUSPENSE DATE: _____

WELL NAME: *2 BYLESBY

API #: 43 047 15102

SEC, TWP, RNG: 5 13S 20E

TELEPHONE CONTACT DOCUMENTATION

CONTACT NAME: TROY SCHWIDLER

CONTACT TELEPHONE NO.: 1-303-721-2743

SUBJECT: STATUS OF WELL

(Use attachments if necessary)

RESULTS: TROY SAID WHEN HE PLUGGED ANOTHER WELL IN SECS, HE VAGUELY REMEMBERED ANOTHER MARKER IN THAT AREA. HE WAS NOT ACQUAINTED WITH THIS WELL, BUT WILL CHECK IT OUT & GET BACK WITH ME.

(Use attachments if necessary)

CONTACTED BY: UC

DATE: 4-19-88

9-1-88 Roy is on vacation
He will be back Tuesday
9-6-88.

VC.

9-21-88 out of office

September 23, 1988

TO: Don T. Staley
FROM: Vicky Carney
RE: #2 BYLLESBY SEC 5 T13S R20E API # 43 047 15102

Don, since I can't seem to find anyone who is familiar with this well, and certainly can't find who plugged it, may we go with Carol Kubly saying it is PA'd and UPRC saying it is PA'd and close the file.

Maybe the review committee can decide what to do. I am all out of ideas.

0511S-65

*Based on Carol Kubly's inspection, let's go ahead
and show this well as plugged. OK'd by
R JF.*

*DTS
9-22-88*



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter
Governor

Dee C. Hansen
Executive Director

Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

December 6, 1991

To: R. J. Firth
D. T. Staley
J. L. Thompson
S. L. Schneider

From: Lisha Romero

Re: Wells listed under N0000/Unknown Operator on Fee and State leases.

All wells previously listed under N0000/Unknown Operator on Fee and State leases, have been changed back to the last known operator, based on information obtained from the well files. Wells that are currently in Shut-In, OPS, or TA status have been assigned Entity numbers. Bond availability has been reviewed for wells on Fee land. Operator's with unplugged wells will now show up on the monthly turnaround report under the last known operator, except for those wells with TA or OPS status. However, due to the fact that the majority of these operators no longer exist, and the fact that the wells have been in unknown operator status for several years, the operator's addresses have been X'd out to prevent mailing of the monthly report.

My intentions are to follow-up with St. Lands/Ed Bonner on lease cancellations, assignments & bonding for wells drilled on State leases.

The Tax Commission will be notified of these changes, and asked to continue to hold off on any action until DOGM advises otherwise.

I hope this change assists in determining future action regarding the unplugged wells within the state. I have attached information for your review. Please advise me of any additional steps to take.

FEE LEASES

Associated Energy Corp./P0061

Broadhead, M.D./N9745

Burnham Oil Co./P0531

Caltah Oil Company/P0397

Carbon Emery Producers/P0126

D & D Oil Co./P0794

Delta Petroleum & Energy/P0032

H.M. Byllesby & Co./P0215

Midway Oil & Refining Co.

Milagro Energy Resources/N2590

Rancho Energy Corp./N3970

Taylor & Taylor/P0561

Tomlinson, Sid/P0795 (Well Stat/TA - No Monthly Report)

Vanco Oil Co./P0411

Zepco Inc./P0791 (Well Stat/OPS - No Monthly Report)

Zion Oil Co. of Nevada/P0792

GRAND CONT.

P0794/D & D Oil Co.

43-019-15001/Sec. 24, T. 21S, R. 23E - Fuller #1 - SOW
Prop. TD 600'/Last Insp. 5-9-90
(See Bond File *Vanco Oil Company, D & D Oil Company, Dan Vanover)

P0411/Vanco Oil Co.

43-019-16261/Sec. 24, T. 21S, R. 23E - Kenmore #3 - SOW
TD 563'/Last Insp. 5-9-90
(See Bond File *Vanco Oil Company, D & D Oil Company, Dan Vanover)

43-019-10384/Sec. 24, T. 21S, R. 23E - Kenmore #2 - SOW
TD 573'/Last Insp. 6-4-90
(See Bond File *Vanco Oil Company, D & D Oil Company, Dan Vanover)

43-019-16262/Sec. 24, T. 21S, R. 23E - Murray Fee #2 - SOW
TD 573'/Last Insp. 5-9-90
(See Bond File *Vanco Oil Company, D & D Oil Company, Dan Vanover)

SUMMIT

P0795/Tomlinson, Sid

43-043-30049/Sec. 30, T. 1S, R. 6E - Gerald Young Ranch & Livestock
#1 - TA - TD 1956'/Last Insp. 8-13-91
(8-1-89 Voluntary Bond Forfeiture/Combined Oil & Gas - Savings
Certificate #27016/\$5,000 Deposited in DOGM Account #5816)

UINTAH

P0215/H. M. Byllesby & Co.

43-047-15102/Sec. 5, T. 13S, R. 20E - #2 Byllesby - SGW
TD 8514'/Last Insp. 8-2-90
(Surety #8882365/\$5,000 Issued by The Aetna Casualty & Surety Co.)

WASHINGTON

P0531/Burnham Oil Co.

43-053-15099/Sec. 13, T. 41S, R. 12W - Fee #3 - SOW
TD 608'/Last Insp. 4-25-89
(No Bond)

P0793/Midway Oil & Refining Co.

43-053-15575/Sec. 13, T. 41S, R. 12W - Fee #3-A - SOW
TD 558'/Last Insp. 3-18-87
(Surety #S215471/\$5,000 Issued by Northwestern National Ins. Co.)

P0561/Taylor & Taylor

43-053-16007/Sec. 14, T. 41S, R. 12W - Fee #4 - SOW
TD 545'/Last Insp. 4-25-89
(No Bond)

April 28, 1997

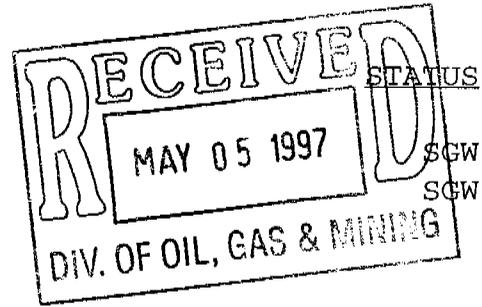
To: John Baza, Petroleum Engineer.
From: David W. Hackford, Roosevelt Inspection Staff.
Re: List of wells inspected during H. M. Byllesby & Co.
operator inspection, followed by overview of inspection.

WELL

API

#1 Byllesby
#2 Byllesby

~~43-047-15101~~
~~unknown~~
43-047-15102



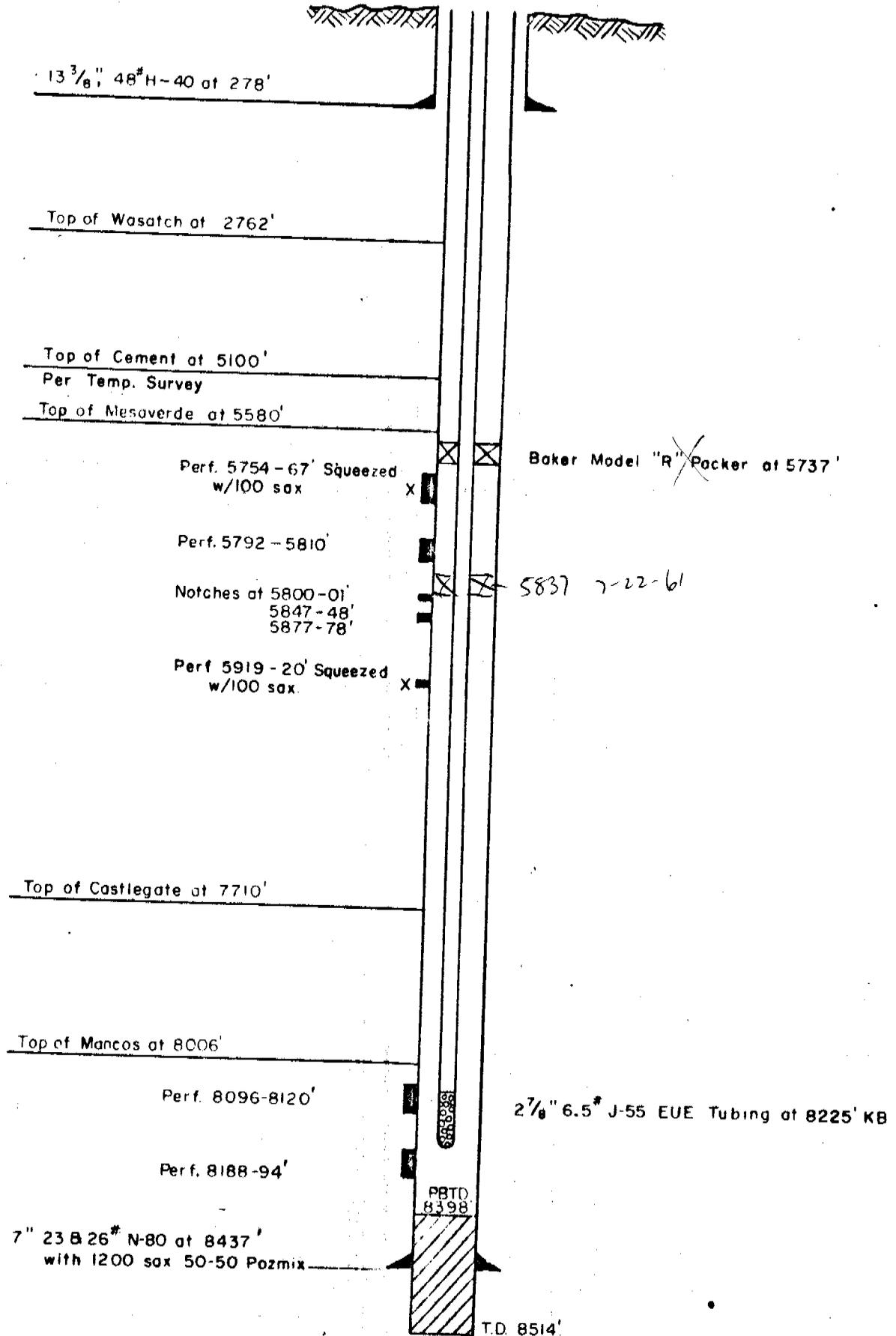
OVERVIEW

The Byllesby operator inspection was conducted on April 25, 1997. The Byllesby #1 is located in Section 27, 12S, 20E. The only equipment on location is a wellhead and tree consisting three 2" Cameron gate valves, one 2" choke and two inoperative gauges. The location is covered with greasewood that in places reaches six feet in height. There are pieces of drilling line, sand line and old boards scattered over the area. There is an open pit that is also covered with brush and holds two rotted out oil drums.

This well was reported PA'd, and while it is possible there are mechanical and/or cement plugs in the well bore, it is unlikely anyone would do this then reinstall the tree. The GPS coordinates for this well are 12615353 E, 4400732 N. Pictures of this well were taken on 1/14/94 and again on this inspection.

The Byllesby #2 is in Section 5, 13S, 20E. Records show this well to be a Mesaverde well reaching TD of 8514'. The well was drilled in 1960. The equipment and location condition are nearly identical to that of the #1.

H. M. BYLLESBY & CO. INC.
BYLLESBY NO. 2
NE SW SEC. 5 - T.13S. - R. 20E.
UINTAH COUNTY, UTAH



STATE OF UTAH
 DIVISION OF OIL, GAS AND MINING
 OIL AND GAS INSPECTION RECORD

OPERATOR: H.M. BYLLESBY & COMPANY

LEASE: FEE

WELL NAME: #2 BYLLESBY

API: 43-047-15102

SEC/TWP/RNG: 05 13.0 S 20.0 E

CONTRACTOR:

COUNTY: UINTAH

FIELD NAME: WILDCAT

DRILLING/COMPLETION/WORKOVER:

- APD	- WELL SIGN	- HOUSEKEEPING	- BOPE
- SAFETY	- POLLUTION CNTL	- SURFACE USE	- PITS
- OPERATIONS	- OTHER		

SHUT-IN Y / TA :

N WELL SIGN	N	HOUSEKEEPING	N	EQUIPMENT *	N	SAFETY
- OTHER						

ABANDONED:

- MARKER	-	HOUSEKEEPING	-	REHAB	-	OTHER
----------	---	--------------	---	-------	---	-------

REDUCTION:

- WELL SIGN	-	HOUSEKEEPING	-	EQUIPMENT *	-	FACILITIES *
- METERING *	-	POLLUTION CNTL	-	PITS	-	DISPOSAL
- SECURITY	-	SAFETY	-	OTHER		

LEASE DISPOSITION:

- UNTESTED/FLARED	-	SOLD	-	LEASE USE
-------------------	---	------	---	-----------

LEGEND: Y = YES/SATISFACTORY N = NO/UNSATISFACTORY A = NOT APPLICABLE

FACILITIES INSPECTED:

LOCATION, WELL HEAD

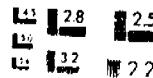
REMARKS:

SGW - LOCATION OVERGROWN W/ WEEDS

ACTION:

INSPECTOR: CAROL KUBLY

DATE: 06/23/92



STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
OIL AND GAS INSPECTION RECORD

OPERATOR: UNKNOWN OPERATOR LEASE: FEE
WELL NAME: #2 BYLLESBY API: 43-047-15102
SEC/TWP/RNG: 05 13.0 S 20.0 E CONTRACTOR: S
COUNTY: UINTAH FIELD NAME: WILDCAT

DRILLING/COMPLETION/WORKOVER:

- APD	- WELL SIGN	- HOUSEKEEPING	- BOPE
- SAFETY	- POLLUTION CNTL	- SURFACE USE	- PITS
- OPERATIONS	- OTHER		

SHUT-IN _ / TA _:

- WELL SIGN	- HOUSEKEEPING	- EQUIPMENT *	- SAFETY
- OTHER			

ABANDONED:

- MARKER	- HOUSEKEEPING	- REHAB	- OTHER
----------	----------------	---------	---------

PRODUCTION:

- WELL SIGN	- HOUSEKEEPING	- EQUIPMENT *	- FACILITIES *
- METERING *	- POLLUTION CNTL	- PITS	- DISPOSAL
- SECURITY	- SAFETY	- OTHER	

GAS DISPOSITION:

- VENTED/FLARED	- SOLD	- LEASE USE
-----------------	--------	-------------

LEGEND: Y = YES/SATISFACTORY N = NO/UNSATISFACTORY A = NOT APPLICABLE

*FACILITIES INSPECTED:

UNKNOWN OPERATOR - NOT INSPECTED - ENTERED TO CLEAR INSPECTION BUGS.

REMARKS:

ACTION:

INSPECTOR: CAROL KUBLY

DATE: 08/14/91

STATE OF UTAH
 DIVISION OF OIL, GAS AND MINING
 OIL AND GAS INSPECTION RECORD

OPERATOR: UNKNOWN OPERATOR

LEASE: FEE

WELL NAME: #2 BYLLESBY

API: 43-047-15102

SEC/TWP/RNG: 05 13.0 S 20.0 E

CONTRACTOR:

COUNTY: UINTAH

FIELD NAME: WILDCAT

DRILLING/COMPLETION/WORKOVER:

- APD	- WELL SIGN	- HOUSEKEEPING	- BOPE
- SAFETY	- POLLUTION CNTL	- SURFACE USE	- PITS
- OPERATIONS	- OTHER		

SHUT-IN Y / TA -:			
Y WELL SIGN	N HOUSEKEEPING	Y EQUIPMENT *	Y SAFETY
- OTHER			

ABANDON D:			
- MA ER	- HOUSEKEEPING	- REHAB	- OTHER

PRODUCTION:			
- WELL SIGN	- HOUSEKEEPING	- EQUIPMENT *	- FACILITIES *
- METERING *	- POLLUTION CNTL	- PITS	- DISPOSAL
- SECURITY	- SAFETY	- OTHER	

GAS DISPOSITION:		
- VENTED/FLARED	- SOLD	- LEASE USE

LEGEND: Y = YES/SATISFACTORY N = NO/UNSATISFACTORY A = NOT APPLICABLE

*FACILITIES INSPECTED:
 LOCATION, WELL HEAD W/ TREE

REMARKS:
 SGW - LOCATION OVERGROWN W/ WEEDS

ACTION:

INSPECTOR: CAROL KUBLY

DATE: 08/02/90



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Kathleen Clarke
Executive Director
Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

November 2, 1999

Ms. Pauline Doohan
MCN Energy Group
500 Griswold
Detroit, Michigan 48226

BY CERTIFIED MAIL NO.: Z 350 464 789

Re: Right of Entry Agreement to Plug Abandoned Wells

Dear Ms. Doohan:

As we discussed today, the Utah Division of Oil, Gas and Mining (the "Division") has completed a public records review at the Uintah County Records Department in Vernal, Utah which indicates your firm is the surface owner of land containing two abandoned gas wells as follow:

1. Byllesby No. 1 Well, situated in the NW $\frac{1}{4}$ NW $\frac{1}{4}$, Section 26, T.12S, R. 20 E, of the S.L.B.M.; and,
2. Byllesby No. 2 Well, situated in the NE $\frac{1}{4}$ SW $\frac{1}{4}$, Section 5, T.13S, R. 20 E, of the S.L.B.M.

The wells in question were drilled and completed in 1961 and have never produced and sold oil or gas. In addition, the Division has no operator of record for the subject wells. Therefore, the Division is required to plug and abandon the wells in order to protect human health and the environment. There is no cost to your firm for this work.

Please find enclosed two copies of a Right of Entry Agreement ("Agreement") which will grant the Division access to the wells for plugging and abandonment work. Please complete, sign, date and have notarized both copies, returning one complete copy to me and retaining one copy for your records.

If you have any questions please call me at (801) 538-5274, or John Baza, Associate Director at (801) 538-5334. Your prompt attention to this matter is appreciated.

Sincerely,

Robert J. Krueger, P.E.
Petroleum Engineer

Enclosure

cc: John R. Baza, P.E., Associate Director
Lowell P. Braxton, Director

CON. Located

CON. Located

WELL LOCATION
BYLLESBY NO. 1
ELEVATION 5152.8

REF. WEST-100.0' EL. 8644.2
REF. EAST-150.0' EL. 8633.3

McNRC Oil & Gasco.

Agent: Daniel L. Schiffer

V.P. +
Treasurer

Serral # 1084-0001
150 W Jefferson Suite 1900
Detroit MI 48226

MI. Corp ID 520734
500 Griswold St.
Detroit MI

48226

No # available (313) 555-1212 c info.
(313) 224-5030

#(517) 334-6302

(400) 555-0031

(517) 334-7561

- 8329 FAX

36

Officers:

President:

Thomas H. Neal

VP

N



WELL LOCATION

BYLLESBY NO. 1

H. M. BYLLESBY & CO., INC.

CHICAGO, ILLINOIS

SITUATED IN NW1/4 NW1/4 SECTION 26,

T. 12S., R. 20E. OF THE S. L. B. M.

UINTAH COUNTY, UTAH

SCALE 1 INCH = 1000 FEET

This is to certify that the
"Well Location" shown on
this plat was plotted from
field notes of actual surveys
made by me or under my
supervision and that the same
are true and correct to the
best of my knowledge and
belief.

Date Surveyed: Oct. 9/10, 1960

Tom Walker

Tom Walker
Reg. Land Surveyor
Glenwood Springs, Colo.
Certificate No. 1068-UTAH

79

Display DOMESTIC CORPORATION

August 24, 1999

8:31 AM

ID: 520734 Out Date:

Out Why:

Name: MCNIC OIL & GAS COMPANY

Inc. Date: 09/11/1992 Inc. State: MICHIGAN

Term: PERPETUAL

Purpose: ALL PURPOSE CLAUSE

LY: 99 Roll: 5517 Frame: 2714 Extension: 0

Acts: 284-1972

Nonstock:

Written Consent: Y

Section 488: N

LY OD: 99

Agent: DANIEL L. SCHIFFER

Address: 500 GRISWOLD STREET

City: DETROIT

State: MI Zip: 48226

Mailing:

PO:

City:

State:

Zip:

Name His: 1

Asm Names: 0

Stock His: N

FE: 000000000

Shares: 50,000.000

Base: 0.000

Other Stock: N

Paid: 0

-
- 1) Images
 - 7) History
 - 9) Pending
 - 10) Modify
 - 11) Assumed Names
 - 12) Comment Letters
 - 13) Help
 - 14) Print Screen
 - 15) Print Screen
 - 16) Return



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Kathleen Clarke
Executive Director
Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

Fax (801) 359-3940

UTAH DIVISION OF OIL, GAS AND MINING
FACSIMILE COVER SHEET

DATE: 8-²³19-99

FAX #: (517) 334-8329

ATTN: Records

COMPANY: Michigan Corporations

DEPARTMENT: —

NUMBER OF PAGES: (INCLUDING THIS ONE) X 2

FROM: Bob Krueger

If you do not receive all of the pages, or if they are illegible, please call (801)538-5340.
We are sending from a sharp facsimile machine. Our telecopier number is (801)359-3940.

MESSAGES:

Can you please verify the correct spelling and type of company (i.e. "a Michigan Corporation") for

MCNIC ~~McAlic~~ Oil and Gas Company
150 W. Jefferson, Suite 1800
Detroit, MI 48226

Important: This message is intended for the use of the individual or entity of which it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return this original message to us at the above address via regular postal service. Thank you.

Thanks,
Please
fax
back
response
to #
above

PAULINE E. DOOHAN
SENIOR ATTORNEY

500 GRISWOLD STREET
DETROIT, MICHIGAN 48226-3700
313 256-5187
313 965-0009 FAX

November 10, 1999

Robert J. Krueger, P.E.
State of Utah
Department of Natural Resources
Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84114-5801

*OK 10/19
in
Bull. 10/19/99*

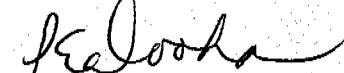
Re: Right of Entry Agreement to Plug Abandoned Wells

Dear Mr. Krueger:

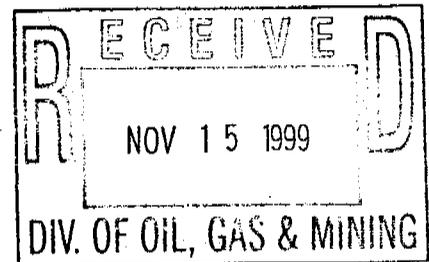
Enclosed please find one fully executed Right of Entry Agreement granting the State of Utah's Oil and Gas Division permission to plug two abandoned wells.

If you have any questions, please call me.

Sincerely,



Pauline E. Doohan
PED/ac
Enclosure
cc: Tom Woodbury



RIGHT OF ENTRY AGREEMENT

This Right of Entry Agreement (the "Agreement"), entered into effective as of the latest date it has been signed by all parties named below, is by and between MCNIC Oil & Gas Company, Michigan Corporation No. 520734, whose mailing address is 150 W. Jefferson, Suite 1800, Detroit, Michigan 48226, (the "Landowner"), and the State of Utah, Department of Natural Resources, Division of Oil, Gas & Mining, Attn: Director, 1594 West North Temple, Suite 1210, Box 145801, Salt Lake City, UT 84114-5801 (the "Division").

Recitals

Whereas, the Landowner represents to the Division that the Landowner is the lawful owner of record of that certain parcel of land located in Uintah County, Utah described more particularly as follows:

- the NW ¼ NW ¼, Section 26, T.12S, R. 20 E, of the S.L.B.M.; and,
- the NE ¼ SW ¼, Section 5, T.13S, R. 20 E, of the S.L.B.M (the "Subject Property"); and

Whereas there is are abandoned oil and/or gas wells on the Subject Property, known as the Byllesby #1 and # 2 wells, (API Nos. 43-047-15101 and 43-047-15102, respectively, the "Wells"), at the location shown more particularly on the Well Site Location Maps attached hereto as Exhibit A and hereby incorporated by reference; and

Whereas the Division, through its employees, agents, consultants, independent contractors and/or other representatives, desires to conduct certain reclamation activities at the Wells on the Subject Property at no cost to the Landowner (the "Project"); and

Whereas, to encourage the Division to do the Project, the Landowner desires to give permission, during the agreed term of this Agreement, to the Division and its employees, agents, consultants, independent contractors and/or other representatives to enter upon and remain on the Subject Property to undertake the work related to the Project during the term of this Agreement in a manner and scope deemed appropriate by the Division;

Now, therefore, in consideration of the foregoing premises, the Landowner and the Division mutually agree as follows:

1. Definitions.--The defined terms and recitals set forth above are hereby incorporated by reference.
2. Right of Entry.--The Landowner hereby agrees and consents that, during the term of this Agreement, duly authorized employees, agents, consultants, independent contractors and/or other representatives of the Division may, at no cost, enter upon and remain on the Subject Property to perform or inspect the Project pertaining to the Wells.

3. Scope of Project.---Subject to availability of resources to the Division, and the Division's other priorities, the Project will consist of reclamation activities to eliminate hazards and environmental problems created by past oil and gas exploration and production activities at the Wells which, in the sole discretion of the Division, adversely affect the public's health, safety and general welfare. The Project may consist of, but is not necessarily limited to, plugging and abandoning the Wells and reclamation of the surface of land in the vicinity of the Wells. The actual scope and timing of the Project will be as deemed reasonable, necessary, prudent and economic in the sole discretion of the Division.

4. Independent Contractor/Liability Issues.--Subject to availability of resources to the Division, and the Division's other priorities, it is understood that the Division currently plans to contract with an independent contractor (or contractors) to carry out all or most of the contemplated reclamation activities on the Project. The Division does not by this Agreement accept liability for errors or omissions, if any, of said independent contractors, unless said liability is otherwise imposed on the Division by applicable Utah law. Any claim by the Landowner against the Division would be subject to the usual requirements and limits of Utah law, such as the doctrine of governmental immunity and the legal limits of governmental liability, so nothing in this Agreement should be construed otherwise. The Division can and does represent to the Landowner that the Division will require its independent contractor on the Project to carry liability insurance and to agree to indemnify the Division and the Landowner from any and all injuries sustained by third parties in connection with said independent contractor's negligent performance, if any, of the reclamation activities on the Project. Of course, the Division makes no guarantee or promise to the Landowner that said indemnity and/or policy of liability insurance necessarily will cover every third party claim, since all indemnity clauses and insurance policies are subject to certain exclusions, conditions and limits. In no case will the Division or its independent contractor insure or indemnify the Landowner for the Landowner's own contributory negligence, if any.

5. No Project Cost or Project Warranty to the Landowner.--It is expressly understood that all costs incurred for studies and reclamation activities shall be the sole liability of the Division. All reclamation activity performed by the Division under the Project will be pursuant to authority under Utah Code Annotated Title 40, Chapter 6 (the "Oil and Gas Act"), and the administrative rules duly promulgated by the Utah Board and/or Division of Oil, Gas & Mining pursuant to the Oil and Gas Act. Since the Division is not charging the Landowner for the cost of the Project, the Landowner understands and agrees that the Division is not assuming a contractual obligation under this Agreement to perform the Project in any particular way or manner to the personal satisfaction of the Landowner.

The Division does not make any express or implied warranty or guarantee whatsoever to the Landowner relative to the Project, including but not limited to any warranty that the Project will make the Subject Property suitable or safe for any specific use.

6. Term.--The term of this Agreement shall be from 12:01 a.m. at the Subject Property on its effective date until 11:59 p.m. at the Subject Property on the third anniversary of the effective date. All permissions granted by the Landowner to the Division shall expire at the end of the term of this Agreement.
7. Entire Agreement.--This Agreement states the entire understanding of the Landowner and Division with regard to the Project, and all prior or contemporaneous oral or written communications between the parties hereto regarding the Project are superceded by this Agreement. Except as provided for herein, neither the Division nor the Landowner shall undertake any activity, either expressed or implied, nor make any representation which purports to bind the other. Any subsequent modification of this Agreement must be in writing and signed by both the Landowner and the Division.
8. Dispute Resolution.--The Landowner and the Division agree that any dispute under this Agreement shall be resolved in the Third District Court in and for Salt Lake County, Utah.
9. Successors & Assigns.--This Agreement shall be binding on the successors and assigns of the Landowner and the Division, and may be recorded by either party with the County Recorder of the County where the Subject Property is located.
10. Authority.--The persons who sign this Agreement on behalf of the Division and the Landowner each represent and warrant that they in fact have the authority to sign this Agreement.
11. Two Originals.--The parties agree that there shall be two originals of this Agreement, with one original to be retained by the Landowner and the other to be retained by the Division.

Signature Page

MCNIC Oil & Gas Company, Michigan Corporation No. 520734

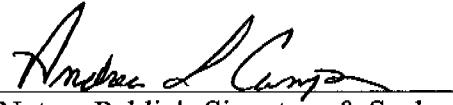
By (sign name): 
Print Name: Daniel L. Schiffer
Print Title: Vice President
Dated this 9th day of November, 1999

REVIEWED
GGC
BY 

ACKNOWLEDGMENT

State of Michigan)
) ss.
County of Wayne)

The foregoing instrument was acknowledged before me this 9th day of November, 1999 by Daniel L. Schiffer, whose title is Vice President with MCNIC Oil & Gas Company.


Notary Public's Signature & Seal
Residing at: Detroit, Michigan
My commission expires: 05/10/01

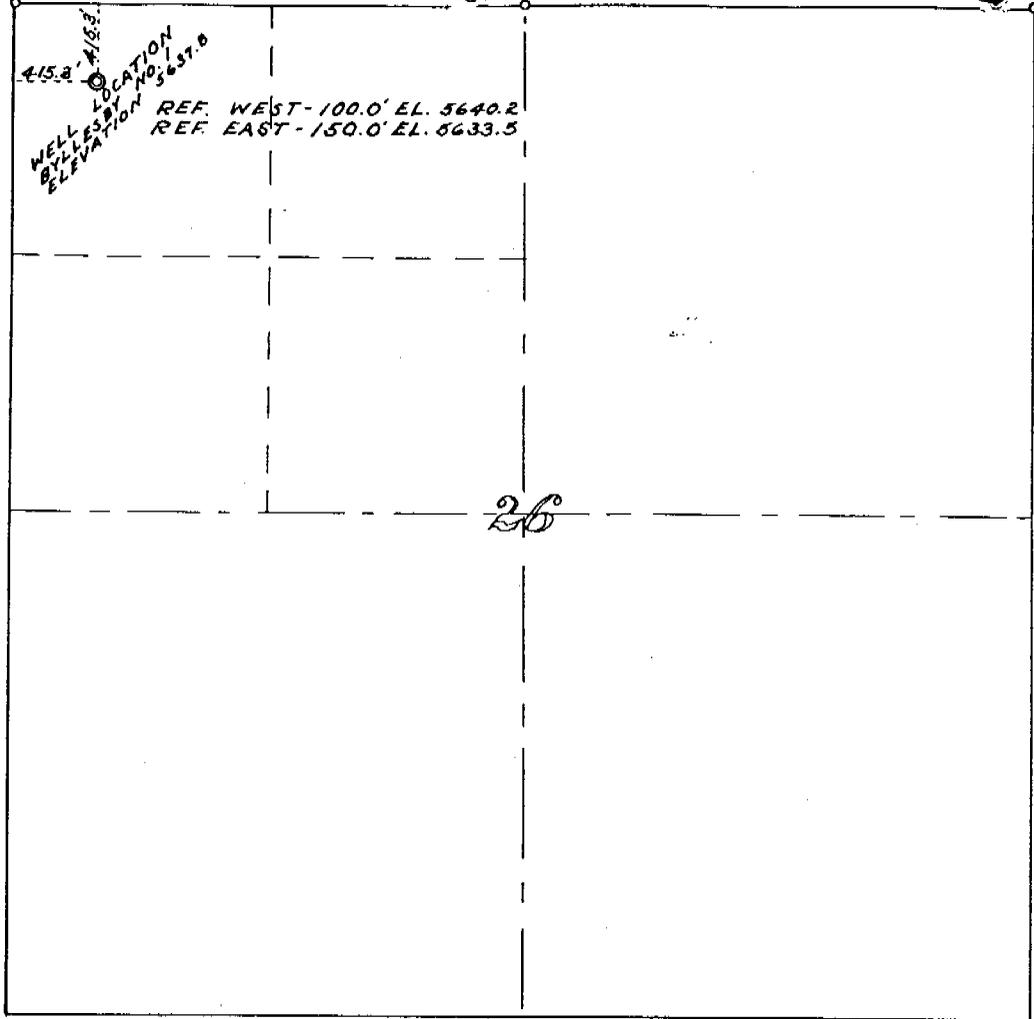
ANDREA L. CAMPAI
Notary Public, Wayne County, MI
My Commission Expires May 10, 2001

EXHIBIT A

Well Site Location Maps

Cor. Located

Cor. Located



WELL LOCATION

BYLLESBY NO. 1

H. M. BYLLESBY & CO., INC.

CHICAGO, ILLINOIS

SITUATED IN NW¹/₄ NW¹/₄ SECTION 26,

T. 12 S., R. 20 E. OF THE S. L. B. M.

UINTAH COUNTY, UTAH

SCALE 1 INCH = 1000 FEET

This is to certify that the "Well Location" shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Date Surveyed: Oct. 9th 1960

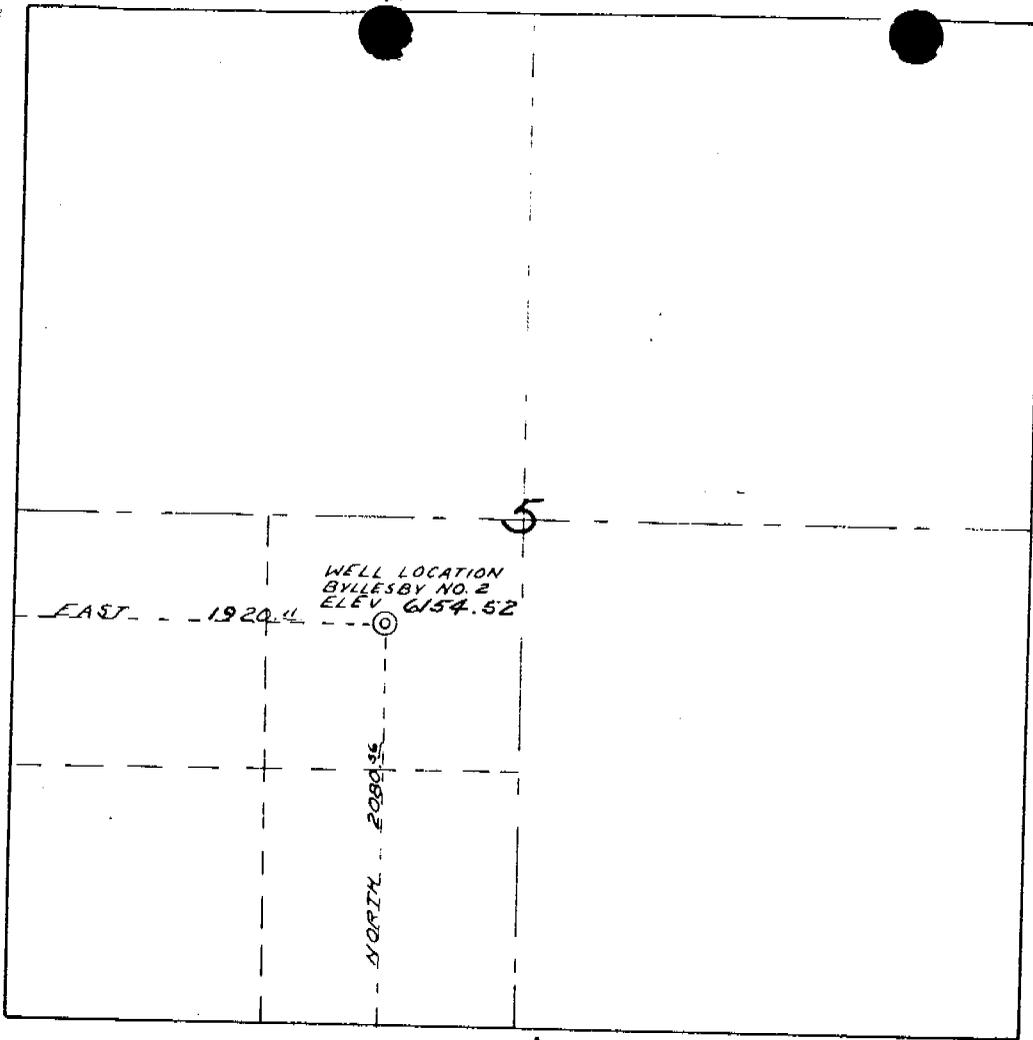
Tom Walker

Tom Walker
Reg. Land Surveyor
Glenwood Springs, Colo.
Certificate No. 1548-UTAH

EXHIBIT
A

1/2

79



WELL LOCATION

BYLLESBY NO. 2

H.M. BYLLESBY & CO., INC.
CHICAGO, ILLINOIS

SITUATED IN NE¹/₄ SW¹/₄, SECTION 5

T13S., R 20E. OF THE S.L.B.M.

UINTAH COUNTY, UTAH

SCALE 1 INCH = 1000 FEET

REF. POINT EAST 150' ELEV. 6156.51

REF. POINT WEST 130' ELEV. 6154.71

This is to certify that the Well Location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Date surveyed, October 9 1960

Tom Walker
 Tom Walker
 Reg. Land Surveyor
 Glenwood Springs, Colorado
 Certificate No. 1548-UTAH

EXHIBIT A

2/2



State of Utah
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
 Governor
 Kathleen Clarke
 Executive Director
 Lowell P. Braxton
 Division Director

1594 West North Temple, Suite 1210
 PO Box 145801
 Salt Lake City, Utah 84114-5801
 801-538-5340
 801-359-3940 (Fax)
 801-538-7223 (TDD)

Boat 5-15-00
Byron Coleman, 3LM
(435) 7781-4482
OK to proceed if
stay inside existing
disturbed area.
u/ road work.
 43-047-15102

March 6, 2000

Travelers Casualty and Surety Company
 Attn: Mr. William Thompson
 215 Schuman Boulevard
 Naperville, Illinois 60563

CERTIFIED MAIL NO. Z350 464 790

Re: Filing of Claim for Bond No. 8S82365 (\$5,000) Issued by The AETNA Casualty and Surety Company (Travelers Casualty and Surety Company), as Surety on behalf of H. M. Byllesby and Company, a Delaware corporation, as Principal

Dear Mr. Thompson:

This letter serves as a request by the Division of Oil, Gas and Mining ("DOGM", successor to the Oil and Gas Conservation Commission) for voluntary forfeiture of the referenced bond due to noncompliance with the following conditions set forth in the bond (see copy of bond in Attachment A).

"NOW THEREFORE, if the above bounden principal shall comply with all of the provisions of the laws of this State, and the rules and regulations and orders of the Conservation Commission of the State, including, but not limited to, the proper plugging of said well or wells, and filing with the Oil and Gas Conservation Commission of the State, all notices and records required by said Commission, ..."

At a minimum, H. M. Byllesby and Company (the "Operator") has failed to comply with DOGM Rule R649-3-36, Shut-in and Temporarily Abandoned Wells, a copy of which is contained in Attachment B. DOGM has neither received correspondence from nor been able to establish contact with the Operator since 1963.

Current Status

DOGM has made numerous good faith attempts to establish contact with the Operator. A summary of the most recent attempts is contained in Attachment C. The



State of Utah
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
 Governor
 Kathleen Clarke
 Executive Director
 Lowell P. Braxton
 Division Director

1594 West North Temple, Suite 1210
 PO Box 145801
 Salt Lake City, Utah 84114-5801
 801-538-5340
 801-359-3940 (Fax)
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Boat 5-15-00
Byron Coleman, 3LM
(435) 7781-4482
OK to proceed if
stay inside existing
disturbed area.
u/ road work.
 43-047-15102

March 6, 2000

Travelers Casualty and Surety Company
 Attn: Mr. William Thompson
 215 Schuman Boulevard
 Naperville, Illinois 60563

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Current Status

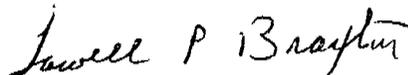
DOGM has made numerous good faith attempts to establish contact with the Operator. A summary of the most recent attempts is contained in Attachment C. The

current whereabouts of the Operator are unknown and the wells have not been documented as having mechanical integrity and may pose a threat to public safety or the environment. Copies of well photographs taken in 1997 are included along with well diagrams in Attachment D.

DOG M has contacted the surface owner and has entered into a right of entry agreement for well plugging and reclamation work on the wells. The work is planned for May 2000. The estimated cost to properly plug and abandon the Byllesby #1 and Byllesby #2 wells are \$ 34,420 and \$ 32,100, respectively. These cost estimates are based on current fiscal year unit costs as defined in DOGM's contract with a well plugging contractor. Costs estimates to plug and abandon the wells can be found in Attachment E.

If you have any questions please contact Robert J. Krueger, Petroleum Engineer at (801) 538-5274 or John Baza, Associate Director - Oil and Gas Program at (801) 538-5334. Your prompt attention to this matter is appreciated.

Sincerely,



Lowell P. Braxton
Director, Division of Oil, Gas and Mining

cc: John R. Baza, PE, Associate Director
Robert J. Krueger, PE, Petroleum Engineer
Bond File
Well Files

Attachments

ATTACHMENT A

Copy of Bond No. 8S82365

ATTACHMENT B

DOGM Rule R 649-3-36

THE STATE OF UTAH
OIL AND GAS CONSERVATION COMMISSION

BOND

KNOW ALL MEN BY THESE PRESENTS,

That we: H. M. Byllesby and Company, a Delaware corporation,
of the _____ in the
County of: Cook State of: Illinois
as Principal,
and:

THE ETNA CASUALTY AND SURETY COMPANY

as surety, authorized to do business in this State, are held and firmly bound unto the State in the penal sum as indicated, lawful money of the United States, for which payment, well and truly to be made to the State of Utah for the use and benefit of the Oil and Gas Conservation Commission, we bind ourselves, and each of us, and each of our heirs, executors, administrators or successors, and assigns jointly and severally, firmly by these presents.

The condition of this obligation is that whereas the above bounden principal proposes to drill a well or wells for oil, gas or stratigraphic purposes in and upon the following described land situated within the State of Utah, to wit:

See rider attached

(may be used as blanket bond or for single well)

NOW, THEREFORE, if the above bounden principal shall comply with all of the provisions of the laws of this State, and the rules, regulations and orders of the Conservation Commission of the State, including, but not limited to, the proper plugging of said well or wells, and filing with the Oil and Gas Conservation Commission of the State, all notices and records required by said Commission, then this obligation is void; otherwise, the same shall be and remain in full force and effect.

Penal Sum of Five Thousand Dollars (\$ 5,000.00) State of Utah

Witness our hands and seals, this 4th day of October, 1960

H. M. Byllesby and Company
By: Richard E. Barker
Principal Secy

Witness our hands and seals, this 4th day of October, 1960

THE ETNA CASUALTY AND SURETY COMPANY
BY: A. P. Bulfin
Surety Attorney-In-Fact

Approved as to form and execution:

ATTORNEY GENERAL
STATE OF UTAH

By: _____

Date: _____

(COUNTERSIGNED)
Ed. D. Smith and Sons
RESIDENT AGENT

(If the principal is a corporation, the bond should be executed by its duly authorized officers, with the seal of the corporation affixed. When principal or surety executes this bond by agent, power of attorney or other evidence of authority must accompany this bond.)

The Aetna Casualty and Surety Company

Hartford, Connecticut

Power of Attorney and Certificate of Authority of Attorney(s)-in-Fact

KNOW ALL MEN BY THESE PRESENTS, THAT *The Aetna Casualty and Surety Company*, a corporation duly organized un
of the State of Connecticut, and having its principal office in the City of Hartford, County of Hartford, State of Connecticut, hath made
and appointed, and does by these presents make, constitute and appoint D. K. Weiser, Joseph I. Johnson, John W.
. Hirschmann, Norman Grimshaw or A.P. Bulfin *

of Chicago, Illinois, its true and lawful Attorney(s), with full power and authority hereby confer
execute and acknowledge, at any place within the United States, or, if the following line be filled in, within the area there designated
, the following ins
for *The Aetna Casualty and Surety Company*, as surety, by his sole signature and act any
bonds, undertakings, and other writings obligatory in the nature of a bond,**

and to bind *The Aetna Casualty and Surety Company*, thereby as fully and to the same extent as if the same were signed by the duly autho
of *The Aetna Casualty and Surety Company*, and all the acts of said Attorney(s), pursuant to the authority herein given, are hereby
confirmed.

This appointment is made under and by authority of the following provisions of the by-laws of the Company which provisions are
force and effect and are the only applicable provisions of said by-laws.

ARTICLE IV—Section 9. The President, any Vice President, or any Secretary may from time to time appoint Resident Vice Presidents, Resident Assista
Attorneys-in-Fact, and Agents to act for and on behalf of the Company and may give any such appointee such authority as his certificate of authority
to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in th
bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors may at any time remove any such appointee and rev
and authority given him.

ARTICLE IV—Section 11. Any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undert
valid and binding upon the Company when (a) signed by the President or a Vice President or by a Resident Vice President, pursuant to the power pre
certificate of authority of such Resident Vice President, and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary or
Assistant Secretary, pursuant to the power prescribed in the certificate of authority of such Resident Assistant Secretary; or (b) duly executed (i
required) by one or more Attorneys-in-Fact pursuant to the power prescribed in his or their certificate or certificates of authority.

This Power of Attorney and Certificate of Authority is signed and sealed by facsimile under and by authority of the following resolution adopted
of Directors of *The Aetna Casualty and Surety Company* at a meeting duly called and held on the 15th day of July, 1960.

RESOLVED: That the signature of Guy E. Mann, Senior Vice President, or of A. H. Anderson, Vice President, or of J. R. Julien, Secretary, or of
Secretary, and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Resident Vice Pre
dent Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nt
and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any su
executed and certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company in the future with respect to any bond or
to which it is attached.

IN WITNESS WHEREOF, *The Aetna Casualty and Surety Company* has caused these presents to be signed by its Secretary
and its corporate seal to be hereto affixed, this 29th day of August, A. D., 19 60.

The Aetna Casualty and Surety C



By J. R. Julien
Secretary

State of Connecticut, County of Hartford—ss:

On this 29th day of August, A. D., 19 60, before me personally came J. R. JULIEN

, to me known, who, being by me duly sworn, did depose and say: that he is Secretary
The Aetna Casualty and Surety Company, the corporation described in and which executed the above instrument, at its Home Office; tha
the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; and that he executed the said instrument on be
corporation by authority of his office under the by-laws thereof.



George A. Ferry
Notary Public.
My Commission Expires Mar. 31, 19 61.

CERTIFICATE

I, the undersigned, Secretary of *The Aetna Casualty and Surety Company*, a stock corporation of the State of C
DO HEREBY CERTIFY that the foregoing and attached Power of Attorney and Certificate of Authority remains in full force and ha
revoked; and furthermore, that Article IV Sections 9 and 11, of the By-Laws of the Company, and the Resolution of the Board of Direc
forth in the Certificate of Authority, are now in force.

Signed and Sealed at the Home Office of the Company, in the City of Hartford, State of Connecticut. Dated this 4th

October A. D., 19 60.



J. R. Julien
Secretary

RIDER TO BOND FURNISHED THE STATE OF UTAH OIL AND GAS COMMISSION
BY H. M. BYLLESBY AND COMPANY, DATED OCTOBER 4, 1960

Legal description of land covered by the bond is
as follows:

Township 12 South, Range 20 East, in Uintah County,
Utah

Section 21:	All	Section 26:	All ✓
Section 22:	All	Section 27:	All
Section 23:	All	Section 28:	All
Section 24:	W $\frac{1}{2}$	Section 29:	All
Section 25:	W $\frac{1}{2}$	Section 35:	All

Township 12 South, Range 21 East, in Uintah County,
Utah

Section 31: SW $\frac{1}{4}$

Township 13 South, Range 20 East, in Uintah County,
Utah

Section 1:	All	Section 11:	All
Section 3:	All	Section 12:	All
Section 4:	All	Section 13:	All
Section 5:	All	Section 14:	All
Section 6:	All except	Section 15:	E $\frac{1}{2}$
those lands included	Section 22:	E $\frac{1}{2}$	
in Allotment 357 and	Section 23:	All ✓	(Now Rio
Patent No. 797048.	Section 24:	All	del Resources)
Section 7:	All	Section 25:	All
Section 8:	All	Section 26:	All
Section 9:	All	Section 27:	NE $\frac{1}{4}$
Section 10:	All		

Township 13 South, Range 21 East, in Uintah County,
Utah

Section 6:	W $\frac{1}{2}$	Section 19:	W $\frac{1}{2}$
Section 7:	W $\frac{1}{2}$	Section 30:	W $\frac{1}{2}$
Section 18:	W $\frac{1}{2}$	Section 31:	NW $\frac{1}{4}$

Containing 19,200 acres
more or less

REK

STATE OF Illinois
COUNTY OF Cook

ss. I, Marcella C. Moran

a Notary Public in and for said County and State, do hereby certify that

* * * * *

Resident Vice-President, and

* * * * *

Resident Assistant Secretary,

A. P. BULFIN

Attorney in fact,

of The Aetna Casualty and Surety Company, who IS personally known to me to be the same person whose name IS subscribed to the foregoing instrument, appeared before me this day in person, and acknowledged that he signed, sealed and delivered said instrument, for and on behalf of The Aetna Casualty and Surety Company, for the uses and purposes therein set forth.

Given under my hand and notarial seal, this 4th day of October
A. D. 1960

Marcella C. Moran

Notary Public.

ATTACHMENT C

Correspondence

Bond Forfeiture Surety Company Summary
March 30, 1999

H.M. Byllesby & Company

Well Name: ~~Byllesby~~ #1 & #2

Api Number: 43-047-15101 & 43-047-15102

Amount: \$5,000.00

Surety Company: Travelers Casualty & Surety Company

Rating: A-

Bond Number: 8S82365

Address: One Tower Square
Hartford, CT 06183-6014

Phone: (860)277-0111

Comments: Tried to locate any information on H.M. Byllesby & Company by researching on Utah Department of Commerce's database the division has access to. I was not successful in finding any information. Also, tried calling information over the phone for Utah, Delaware and Illinois. I was not successful in locating any listings.

ATTACHMENT D

Well Photographs and Diagrams

Well Photographs Taken in 1997

Byllesby #1



Byllesby #2



H. M. BYLLESBY & CO. INC.
BYLLESBY NO. 1
NW NW SEC. 26 - T. 12 S - R. 20 E
UINTAH COUNTY, UTAH

13 3/8" 48# H-40 at 295' w/225 sax

Top Wasatch at 2700'

Perf. 4387' w/6 1" Jets
Perf. 4394' w/6 1" Jets
Perf. 4403-04 & Squeezed X

Sliding Sleeve at 4486'
Model "R" Packer at 4487'

Top of Cement at 5075'
Per Temp Survey

Top Mesaverde at 5184'

Perf. 5640-50'

Perf. Nipple at 5651'

Perf. 5680-94'

X

Perf. 6898-6908'
6902' (8 way Jets)

Perf. 6942-56'
6949' (8 way Jets)

2 7/8" 6,50# J-55 EUE Tubing
at 6961'

Perf. Nipple at 7045-51'

PBD
7120'

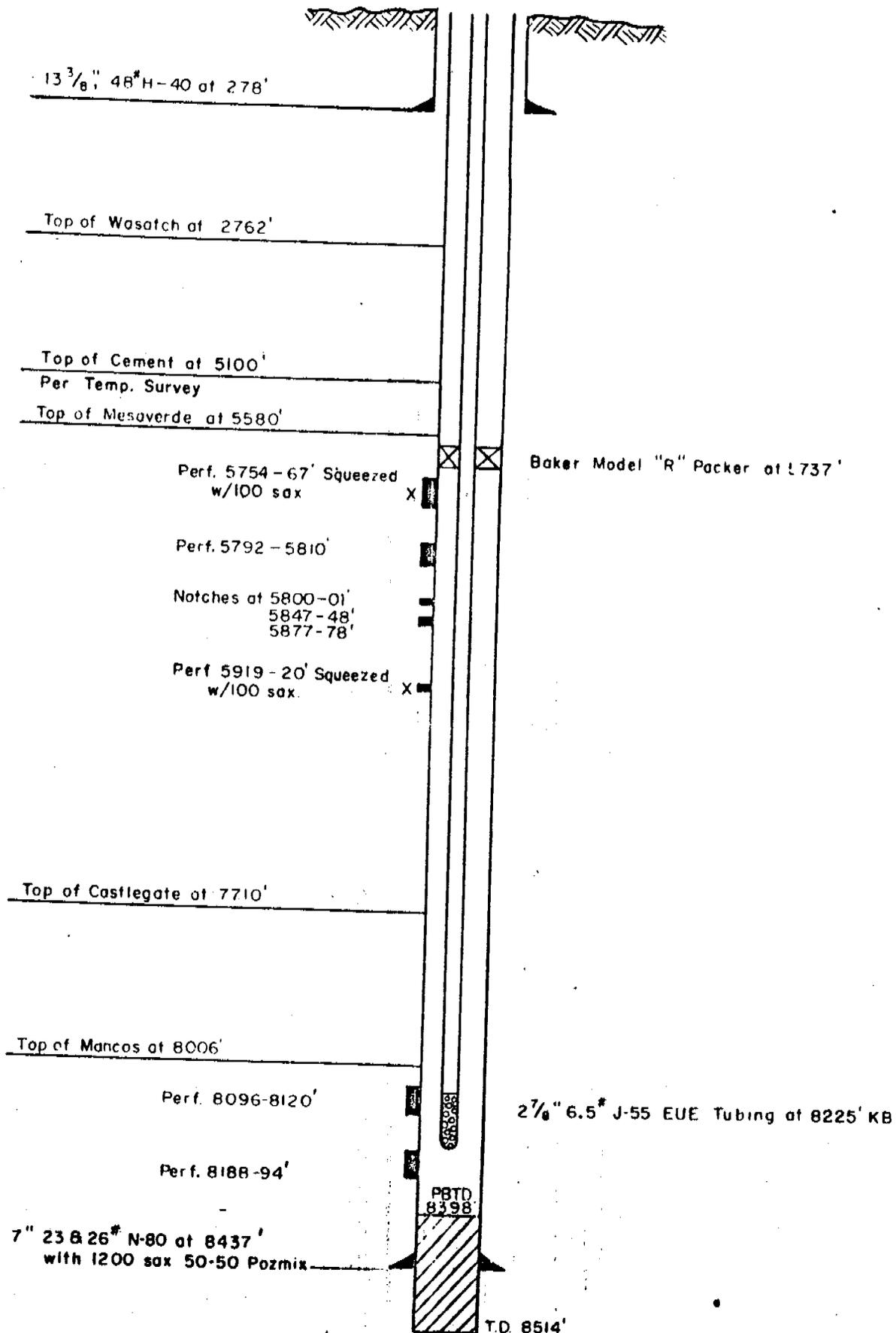
7" 26# & 23# N 80 at 7150'

W. Collar at 7120' & D.V. Collar

1st Stage 1700 sax 5A-56 Pozmix
2nd Stage 400 sax

Li

H. M. BYLLESBY & CO. INC.
BYLLESBY NO. 2
NE SW SEC. 5 - T.13S. - R.20E.
UINTAH COUNTY, UTAH



ATTACHMENT E

Well Plugging Cost Estimates

UCS Item	Description	Type	Units	Quantity	Unit Cost	Subtotal
A WORKOVER RIG LABOR AND EQUIPMENT						
A1	4-man crew travel, RT to/from loc., inc. vehicle & wages	---	\$/day	6	\$400	\$2,400
A2	Ops. Super./Cementer inc. trans., pager, & cellular	---	\$/hr	40	\$60	\$2,400
A3	Double-Triple Rig w/BOPE, rams, strip and swab tools	---	\$/hr	40	\$200	\$8,000
A4	Drilling package w/PS, mud pit and triplex pump	---	\$/hr	0	\$50	\$0
A5	Water storage and flow tanks	---	\$/day	5	\$100	\$500
A6	Tubing work string rental	---	\$/day/ft	0	\$0.10	\$0
A7	Standby time - crew and support equipment	---	\$/hr	0	\$150	\$0
B CEMENTING SERVICES						
B1	Balanced plug inc. fluids and testing	---	\$/plug	3	\$600	\$1,800
B2	Surface plug inc. fluids and testing	---	\$/plug	1	\$400	\$400
B3	Pump charge - plug not set	---	\$/hr	0	\$400	\$0
B4	API Class B or H cement - FOB location	---	\$/sk	210	\$12	\$2,520
B5	API Class B or H cement w/ 2% CaCl - FOB location	---	\$/sk	110	\$13	\$1,430
B6.1	Cement Retainer - 4.5 ", Type 1 or 2	N/A	\$/ea	0	\$0	\$0
B6.2	Cement Retainer - 5.5 ", Type 1 or 2	N/A	\$/ea	0	\$0	\$0
B6.3	Cement Retainer - 6.625 ", Type 1 or 2	N/A	\$/ea	0	\$0	\$0
B6.4	Cement Retainer - 7 ", Type 1 or 2	1 & 2	\$/ea	2	\$1,160	\$2,320
B6.5	Cement Retainer - 7.625 ", Type 1 or 2	N/A	\$/ea	0	\$0	\$0
B6.6	Cement Retainer - 8.625 ", Type 1 or 2	N/A	\$/ea	0	\$0	\$0
B6.7	Cement Retainer - 9.625 ", Type 1 or 2	N/A	\$/ea	0	\$0	\$0
B6.8	Cement Retainer - 10.75 ", Type 1 or 2	N/A	\$/ea	0	\$0	\$0
C WIRELINE SERVICES						
C1	Travel to/from loc., inc. vehicle and wages	---	\$/mi	0	\$4.00	\$0
C2	Annular squeeze perfs - HCS 3 1/8" or 4 ", 3 holes	---	\$/event	0	\$600	\$0
C3	Annular squeeze perfs - Bi-Wire, 2 or 4 holes	---	\$/event	0	\$500	\$0
C4	Jet-cut casing, Type 1 or 2	N/A	\$/event	0	\$1,100	\$0
C5	Jet cut casing shot - Petrogel	---	\$/event	0	\$800	\$0
C6	Free point determination	---	\$/event	0	\$1,500	\$0
C7	Mast truck w/ driver	---	\$/hr	0	\$60	\$0
C8	Depth charge for gage rings, junk basket	---	\$/ft	0	\$0.15	\$0
C9.1	Cement Retainer 4.5 ", Type 1, 2 or 3	N/A	\$/ea	0	\$0	\$0
C9.2	Cement Retainer 5.5 ", Type 1, 2 or 3	N/A	\$/ea	0	\$0	\$0
C9.3	Cement Retainer 6.625 ", Type 1 or 2	N/A	\$/ea	0	\$0	\$0
C9.4	Cement Retainer 7 ", Type 1, 2 or 3	3	\$/ea	0	\$1,160	\$0
C9.5	Cement Retainer 7.625 ", Type 1, 2 or 3	N/A	\$/ea	0	\$0	\$0
D TRANSPORTATION AND MISC. SERVICES						
D1	Winch truck w/ driver, inc. wages and mileage	---	\$/hr	0	\$75	\$0
D2	Water truck w/ driver, inc. wages and mileage	---	\$/hr	0	\$60	\$0
D3	2-axle rig-up truck w/ driver & helper, wages and mileage	---	\$/hr	32	\$100	\$3,200
D4	1-axle truck w/ driver, inc. wages and mileage	---	\$/hr	0	\$60	\$0
D5	Vacuum truck w/ driver, inc. wages and mileage	---	\$/hr	0	\$60	\$0
D6	Hot oiler, inc. eqpt., labor and mileage	---	\$/hr	0	\$110	\$0
D7	Welder, inc. eqpt., labor and mileage	---	\$/hr	16	\$50	\$800
D8	P&A Marker per Utah specs.	---	\$/ea	1	\$100	\$100
D9	Packer Fluid per spec.	---	\$/bbl	0	\$9.00	\$0
D10	Per Diem inc. room and board	---	\$/man/day	30	\$55	\$1,650
E THIRD PARTY CHARGES						
E1	Costs plus 15 %	---	\$	1.15	\$6,000	\$6,900
					TOTAL	\$34,420

NOTES: E1 = Road Construction, water truck and wireline rig (\$6,000)

BYLLESBY #1 WELL

**PROJECT WORK ORDER
ATTACHMENT 1**

UCS Item	Description	Type	Units	Quantity	Unit Cost	Subtotal
A WORKOVER RIG LABOR AND EQUIPMENT						
A1	4-man crew travel, RT to/from loc., inc. vehicle & wages	---	\$/day	6	\$400	\$2,400
A2	Ops. Super./Cementer inc. trans., pager, & cellular	---	\$/hr	40	\$60	\$2,400
A3	Double-Triple Rig w/BOPE, rams, strip and swab tools	---	\$/hr	40	\$200	\$8,000
A4	Drilling package w/PS, mud pit and triplex pump	---	\$/hr	0	\$50	\$0
A5	Water storage and flow tanks	---	\$/day	5	\$100	\$500
A6	Tubing work string rental	---	\$/day/ft	0	\$1.00	\$0
A7	Standby time - crew and support equipment	---	\$/hr	0	\$150	\$0
B CEMENTING SERVICES						
B1	Balanced plug inc. fluids and testing	---	\$/plug	2	\$600	\$1,200
B2	Surface plug inc. fluids and testing	---	\$/plug	1	\$400	\$400
B3	Pump charge - plug not set	---	\$/hr	0	\$400	\$0
B4	API Class B or H cement - FOB location	---	\$/sk	160	\$12	\$1,920
B5	API Class B or H cement w/ 2% CaCl - FOB location	---	\$/sk	110	\$13	\$1,430
B6.1	Cement Retainer - 4.5 ", Type 1 or 2	N/A	\$/ea	0	\$0	\$0
B6.2	Cement Retainer - 5.5 ", Type 1 or 2	N/A	\$/ea	0	\$0	\$0
B6.3	Cement Retainer - 6.625 ", Type 1 or 2	N/A	\$/ea	0	\$0	\$0
B6.4	Cement Retainer - 7 ", Type 1 or 2	1	\$/ea	0	\$1,500	\$0
B6.5	Cement Retainer - 7.625 ", Type 1 or 2	N/A	\$/ea	0	\$0	\$0
B6.6	Cement Retainer - 8.625 ", Type 1 or 2	N/A	\$/ea	0	\$0	\$0
B6.7	Cement Retainer - 9.625 ", Type 1 or 2	N/A	\$/ea	0	\$0	\$0
B6.8	Cement Retainer - 10.75 ", Type 1 or 2	N/A	\$/ea	0	\$0	\$0
C WIRELINE SERVICES						
C1	Travel to/from loc., inc. vehicle and wages	---	\$/mi	0	\$4.00	\$0
C2	Annular squeeze perfs - HCS 3 1/8" or 4 ", 3 holes	---	\$/event	0	\$600	\$0
C3	Annular squeeze perfs - Bi-Wire, 2 or 4 holes	---	\$/event	0	\$500	\$0
C4	Jet-cut casing, Type 1 or 2	N/A	\$/event	0	\$0	\$0
C5	Jet cut casing shot - Petrogel	---	\$/event	0	\$800	\$0
C6	Free point determination	---	\$/event	0	\$1,500	\$0
C7	Mast truck w/ driver	---	\$/hr	0	\$60	\$0
C8	Depth charge for gage rings, junk basket	---	\$/ft	0	\$0.15	\$0
C9.1	Cement Retainer 4.5 ", Type 1, 2 or 3	N/A	\$/ea	0	\$0	\$0
C9.2	Cement Retainer 5.5 ", Type 1, 2 or 3	N/A	\$/ea	0	\$0	\$0
C9.3	Cement Retainer 6.625 ", Type 1 or 2	N/A	\$/ea	0	\$0	\$0
C9.4	Cement Retainer 7 ", Type 1, 2 or 3	3	\$/ea	1	\$1,200	\$1,200
C9.5	Cement Retainer 7.625 ", Type 1, 2 or 3	N/A	\$/ea	0	\$0	\$0
D TRANSPORTATION AND MISC SERVICES						
D1	Winch truck w/ driver, inc. wages and mileage	---	\$/hr	0	\$75	\$0
D2	Water truck w/ driver, inc. wages and mileage	---	\$/hr	0	\$60	\$0
D3	2-axle rig-up truck w/ driver & helper, wages and mileage	---	\$/hr	32	\$100	\$3,200
D4	1-axle truck w/ driver, inc. wages and mileage	---	\$/hr	0	\$60	\$0
D5	Vacuum truck w/ driver, inc. wages and mileage	---	\$/hr	0	\$60	\$0
D6	Hot oiler, inc. eqpt., labor and mileage	---	\$/hr	0	\$110	\$0
D7	Welder, inc. eqpt., labor and mileage	---	\$/hr	16	\$50	\$800
D8	P&A Marker per Utah specs.	---	\$/ea	1	\$100	\$100
D9	Packer Fluid per spec.	---	\$/bbl	0	\$9.00	\$0
D10	Per Diem inc. room and board	---	\$/man/day	30	\$55	\$1,650
E THIRD PARTY CHARGES						
E1	Costs plus 10 %	---	\$	1.15	\$ 6,000	\$6,900
TOTAL						\$32,100

NOTES: E1 = Road construction, water truck and wireline rig (\$6,000)
BYLLESBY #2 WELL

WELL SEARCH WELL DATA WELL HISTORY WELL ACTIVITY

LOOK UP: OPERATOR NAME / ACCOUNT

LOOK UP: FIELD NAME / NUMBER

SEARCH KEYS

API NUMBER WELL NAME
 OPERATOR ACCOUNT WELL STATUS/TYPE
 FIELD NUMBER ENTITY NUMBER
 SECTION / TOWNSHIP / RANGE / MERIDIAN 130S 200E S

4304730860 : AGENCY DRAW 3-24

8/11



SEARCH

CLEAR KEYS

GET ALL WELLS

API	WELL NAME	ACCOUNT	COORDS	SECTION	TOWNSHIP	RANGE	COUNTY	LEASE NUM	WELL STATU	CUM GAS
4304711176	BYLLESBY #4	P0208		12	130S	200E	UINTAH	FEE	PA	0
4304715102	#2 BYLLESBY	P0215		05	130S	200E	UINTAH	FEE	S	0
4304715103	AGENCY DRAW 23-2A	N9465		23	130S	200E	UINTAH	FEE	PA	2482
4304730178	TEXACO-UT-SHALE LAND	N0980		24	130S	200E	UINTAH	FEE	LA	0
4304730852	U S LAMCO 4-5	N0200		05	130S	200E	UINTAH	FEE	PA	0
4304730860	AGENCY DRAW 3-24	N0200		24	130S	200E	UINTAH	FEE	PA	0
4304731273	CHAMPLIN 23-1A	N9465		23	130S	200E	UINTAH	FEE	PA	4866
4304731306	AGENCY DRAW 1-1A	N9465		01	130S	200E	UINTAH	FEE	PA	3152
4304731510	AGENCY DRAW 16-3	N3395		03	130S	200E	UINTAH	FEE	PA	0
4304731592	AGENCY DRAW 16-2	N9600		02	130S	200E	UINTAH	ML-22324-A	LA	0



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Kathleen Clarke
Executive Director

Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

May 8, 2000

Travelers Insurance Company
Attn: Ms. Pam Ebert, Bond Claim Department
215 Schuman Boulevard
Naperville, Illinois 60563

CERTIFIED MAIL NO. Z350 464 802

Re: Requested Information Regarding Claim for Bond No. 8S82365 (\$5,000): Issued by The AETNA Casualty and Surety Company (Travelers Insurance Company), as Surety on behalf of H. M. Byllesby and Company, a Delaware corporation, as Principal

Dear Ms. Ebert:

This letter serves to transmit information you requested in our telephone conversation today. Please find in Attachment A, a letter from Lannan & Company Insurance ("Lannan") dated June 2, 1965 requesting bond cancellation. Also in Attachment A is a response letter to Lannan from the Division of Oil, Gas and Mining ("DOGM", successor to the Oil and Gas Conservation Commission) rejecting the bond cancellation. As we discussed, DOGM has no records regarding the filing of a replacement bond by Advance Ross. Therefore, we request the referenced bond claim be processed.

Please find a copy of the DOGM Bond Release ("Release") in Attachment B. This Release will be executed and forwarded to you along with the original bond upon receipt of the referenced claim payment.

If you have any questions please contact me or John Baza, Associate Director - Oil and Gas Program at (801) 538-5334. Your prompt attention to this matter is appreciated.

Sincerely,

Robert J. Krueger, P.E.
Petroleum Engineer

cc: John R. Baza, PE, Associate Director
Bond File
Byllesby 1 & 2 Well Files

Attachments

ATTACHMENT A

Correspondence

LANNAN & CO.
INSURANCE

CHICAGO · MINNEAPOLIS · PITTSBURGH · NEW YORK

141 WEST JACKSON BOULEVARD

CHICAGO 60604

WABASH 2-7187

June 2nd, 1965

The State of Utah
Oil and Gas Conservation Commission
Salt Lake City, Utah

Gentlemen:

Re: Oil and Gas Well Drilling
Bond No. 8S82365BC
H. M. Byllesby

Our records indicate that, we have in force the above captioned bond covering various locations per list attached. This bond should be canceled as our Principal has advised that they are no longer doing business at these location however, we have been unable to find the proper party with whom the bond is filed. We have been corresponding with the Department of Interior of the United States, Bureau of Land Management but they have been unable to help us. On reviewing our file we find the Obligee under the Bond is the State of Utah, For the Use and Benefit of Oil & Gas Conversion Commission.

The bond was originally issued in the name of H. M. Byllesby but was changed to Advance Ross by rider on October 22nd, 1964. The bond was originally issued on October 4th, 1960.

Will you please check your records and advise us of the status of this bond?

Yours very truly,

LANNAN & CO.


A. Kekelik

/ark
encl.

June 7, 1965

Lanna & Company Insurance
141 West Jackson Boulevard
Chicago, Illinois 60604

Re: Bond No. 8S82865BC for three Byllesby
Wells located in 12 & 13 South, Range
20 East, Uintah County, Utah.

Gentlemen:

Liability of the above mentioned bond cannot be released until
such time as the Byllesby No. 1, 2 & 3 wells are plugged and abandoned
or a new bond is filed in lieu thereof.

We would suggest that you contact Caldwell and Covington, the
agents for Byllesby, P. O. Box 478, Vernal, Utah, to determine the
status of these wells.

If some activity does not take place with respect to these wells in
the not to distant future, this Commission will probably instigate action
to have the wells plugged.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT
EXECUTIVE DIRECTOR

CBF:cnp

cc: Caldwell & Covington
P. O. Box 478
Vernal, Utah

W

ATTACHMENT B

DOGM Bond Release Form

RELEASE

WHEREAS, H. M. Byllesby and Company ("Operator"), as principal, and AETNA Casualty and Surety Company (Travelers Insurance Company) ("Surety"), as surety, issued a bond number 8S82365 in the amount of Five Thousand and no Dollars (\$5,000.00) on October 4, 1960 in favor of the State of Utah, which bond provided the State some assurance that a certain well would be plugged pursuant to the rules and regulations of the State of Utah.

WHEREAS, the State of Utah has made a demand on the operator and surety under the referenced bond in the amount of \$5,000.00 pursuant to the terms of the bond.

NOW, THEREFORE, in consideration of the payment of Five Thousand and no Dollars (\$5,000.00), the State of Utah fully discharges and releases the surety of any and all claims, whether known or unknown, relating to the obligation stated within the terms of the bond. This release shall take full force and effect only upon receipt by the State of Utah of the payment in the amount of \$5,000.00, referenced above.

SIGNED AND SEALED this _____ day of May, 2000.

**THE STATE OF UTAH
DIVISION OF OIL, GAS AND MINING:**

By: _____
Lowell P. Braxton, Director

STATE OF UTAH)
) ss:
COUNTY OF _____)

On the _____ day of May, 2000, personally appeared before me Lowell P. Braxton, who being duly sworn did say that he, the said Lowell P. Braxton is the Director of the Division of Oil, Gas and Mining, Department of Natural Resources, State of Utah, and he duly acknowledged to me that he executed the foregoing release by authority of law on behalf of the State of Utah.

Notary Public
Residing at: _____

My Commission Expires:

A - PLUS WELL SERVICE, INC.

P.O. BOX 1979
FARMINGTON, NM 87499
505-325-2627 • FAX: 505-325-1211

COPY

Plug & Abandonment Report

Division of Oil, Gas & Mining
Project Work Order #2000-02

June 22, 2000

Page 1 of 2

Well Name: Byllesby #2
API Number: 43-047-15102
Location: 2081'FSL, 1920' FWL, Section 5, T-13-S, R-20-E
Uintah County, Utah

Cementing Summary:

Plug #1 with retainer at 8051', mix 60 sxs Class B cement, squeeze 40 sxs below retainer to fill perforations and spot 20 sxs above to cover Emory top.

Plug #2 with retainer at 5705', mix 70 sxs Class B cement, squeeze 50 sxs below retainer to fill Mesaverde perforations and leave 20 sxs above to cover Mesaverde top.

Plug #3 with 30 sxs Class B cement inside casing from 2823' to 2673' to cover Wasatch formation.

Plug #4 with 96 sxs Class B cement pumped down the 7" casing from 100' to surface, circulate good cement out bradenhead valve.

Plugging Summary:

5-24-00 Drive to location. Check well pressures: casing 2200# and tubing 0#. Check double master valves, both open and operating. Choke frozen; replaced with choke from Byllesby #1 wellhead. Tubing dead. Open casing to atmosphere; very strong blow. Blew well down to flowing pressure of 75#, heavy mist and gas flow. SI well.

5-25-00 Drive to location and check well pressures: casing 1750#; blow well down; casing pressure was 350# when flowing. Well started unloading condensate and water. Road rig and equipment to location, RU. Layout relief lines to steel pit. Open up well and blow down 750# casing pressure; unloading heavy gas with condensate. ND tree manifold and pump 50 bbls water down tubing; SITP 0# on a vacuum. Pump 50 bbls water down casing. ND wellhead, dead, no flow. SDFD due to rain, Drive to Vernal, muddy roads.

5-26-00 Drive to location; muddy roads. Pressures: tubing dead and casing 1100#. Open up well and blow down; unloaded gas with some fluid. Continue to ND wellhead; bolts rusty. Pump 50 bbls water down casing to kill well. Remove wellhead and NU BOP; test. Work tubing to release packer. Start to TOH with packer dragging 10,000# to 20,000# over string weight (49,000#). Well started to unload, pumped 30 bbls water down tubing, after pumping 10 bbls at 3 bpm at 1500# casing slugging gas and water. Continue to TOH with packer dragging; tally tubing. Pulled total of 262 joints 2-7/8" EUE tubing, packer at 5859' with 4' perf sub and bull plug on bottom. PU 6-1/8" bit, 7" casing scraper and start to TIH. TIH with 16 stands; 1008'. SDFD. Drive to Farmington for Memorial Day Weekend.

5-29-00 Drive from Farmington to Vernal.

A - PLUS WELL SERVICE, INC.

P.O. BOX 1979
FARMINGTON, NM 87499
505-325-2627 • FAX: 505-325-1211

Plug & Abandonment Report
Division of Oil, Gas & Mining
Project Work Order #2000-02

June 22, 2000
Page 2 of 2

Well Name: Byllesby #2
API Number: 43-047-15102
Location: 2081'FSL, 1920' FWL, Section 5, T-13-S, R-20-E
Uintah County, Utah

Plugging Summary Continued:

- 5-30-00 Drive to location. Check well pressures: SICP&SITP 30#, TIW valve leaking, small gas blow. Bleed well down. Continue to TIH with bit and casing scraper to 8108', 260 joints. TOH with scraper and LD. TIH with 7" DHS cement retainer and set at 8051'. Pressure test tubing to 2200#, held OK. Establish rate into Emory perforations 2 bpm at 1700#. Sting out of retainer and load casing with water; blowing moderate gas. Plug #1 with retainer at 8051', mix 60 sxs Class B cement, squeeze 40 sxs below retainer to fill perforations and spot 20 sxs above to cover Emory top. TOH with tubing. Shut in well and SDFD. Drive to Vernal.
- 5-31-00 Drive to location. Open up well and blow down 175# casing pressure. Continue to TOH with tubing, found 18 joints with cement; LD same. TIH with 7" DHS cement retainer and set at 5705'. Load casing with 32 bbls water, unloading gas and water; pumped total 70 bbls water. Pressure tested casing to 1000#, held OK. Plug #2 with retainer at 5705', mix 70 sxs Class B cement, squeeze 50 sxs below retainer to fill Mesaverde perforations and leave 20 sxs above to cover Mesaverde top. TOH and LD 2-7/8" tubing. PU to 2823'. Plug #3 with 30 sxs Class B cement inside casing from 2823' to 2673' to cover Wasatch formation. TOH and LD tubing. RD floor and RU A-Plus wireline truck. Perforate 2 bi-wire squeeze holes at 100'. Plug #4 with 96 sxs Class B cement pumped down the 7" casing from 100' to surface, circulate good cement out bradenhead valve. RD cementing equipment and drive cement truck with wireline truck to Vernal.
- 6-1-00 Drive to location. Backhoe dug out around wellhead. J-West welder cut off wellhead by cutting the 13-3/8" and 7" casings. Found cement at 80' in 7" x 13-3/8" annulus, unable to tag cement in 7" casing. Perforations at 100', cement fell back out into annulus. SDFD and drive to Grand Junction.
R. Krueger, State of Utah, was on location and approved plugging plans.
- 6-02-00 Drive from Grand Junction to Farmington.
6-05-00 Drive to Vernal
- 6-06-00 Drive to Ouray, Utah and meet redi-mix cement truck. Drive to location. Fill 7" casing and annulus with 125 sxs cement. Install P&A marker. Fill in pit and clean up location. Drive to Byllesby #1.
Work witnessed by David Hackford with DOG&M.

R649-3-35-1 will be held confidential in accordance with R649-2-11 at the request of the operator.

3. The division shall review the submitted information and advise the operator and the State Tax Commission of its decision regarding the wildcat well designation as related to Section 59-5-102(2)(d).

4. The division is responsible for approval of a request for designation of a well as a wildcat well. If the operator disagrees with the decision of the division, the decision maybe appealed to the board. Appeals of all other tax-related decisions concerning wildcat wells should be made to the State Tax Commission.

R649-3-36. Shut-in and Temporarily Abandoned Wells.

1. Wells may be initially shut-in or temporarily abandoned for a period of twelve (12) consecutive months. If a well is to be shut-in or temporarily abandoned for a period exceeding twelve (12) consecutive months, the operator shall file a Sundry Notice providing the following information:

1.1. Reasons for shut-in or temporarily abandonment of the well,

1.2. The length of time the well is expected to be shut-in or temporarily abandoned, and

1.3. An explanation and supporting data if necessary, for showing the well has integrity, meaning that the casing, cement, equipment condition, static fluid level, pressure, existence or absence of Underground Sources of Drinking Water and other factors do not make the well a risk to public health and safety or the environment.

2. After review the Division will either approve the continued shut-in or temporarily abandoned status or require remedial action to be taken to establish and maintain the well's integrity.

3. After five (5) years of nonactivity or nonproductivity, the well shall be plugged in accordance with R649-3-24, unless approval for extended shut-in time is given by the Division upon a showing of good cause by the operator.

4. If after a five (5) year period the well is ordered plugged by the Division, and the operator does not comply, the operator shall forfeit the drilling and reclamation bond and the well shall be properly plugged and abandoned under the direction of the Division.