

FILE NOTATIONS

Entered in NID File ✓
Location Map Pinned ✓
Card Indexed ✓

PHB
Checked by Chief
Approval Letter
Disapproval Letter

COMPLETION DATA:

Date Well Completed *1-10-69*
OW..... WW..... TA.....
GW... ✓ OS..... PA.....

Location Inspected
Bond released
State or Fee Land

LOGS FILED

Driller's Log. *2-14-69*
Electric Logs (No.) *2*.....

E..... I..... Dual I Lat..... GR-N..... Micro.....

BHC Sonic GR..... Lat..... Mi-L..... Sonic *Gamma Ray*
CBLog..... CCLog..... Others. *Induction Electric*

3 and in file with the Division of
State Lands - 9-4-68

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
Oil Incorporated, designated Operator-Agent

3. ADDRESS OF OPERATOR
72 East Fourth South, Suite 240, Salt Lake City, Utah 84111

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface **1475' N. of S. Line and 1110' W. of E. line**
 At proposed prod. zone **of Section 32**
SW NE SE

5. LEASE DESIGNATION AND SERIAL NO.
ML 21613

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Horse Point

8. FARM OR LEASE NAME

9. WELL NO.
M-6 (state)

10. FIELD AND POOL, OR WILDCAT
Wildcat New Pool
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 32, T. 16S, R. 24F, SLB&M

12. COUNTY OR PARISH
Grand

13. STATE
Utah

10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED TO THIS WELL

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

19. PROPOSED DEPTH

20. ROTARY OR CABLE TOOLS

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
GR 7,052.0

22. APPROX. DATE WORK WILL START*
July 15, 1968

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

Drill 12 1/4" hole and set 9-5/8" casing to 150 ft. Cement to surface. ✓

Drill 8-3/4" hole and set 7" casing through the Castlegate sandstone - estimated depth 2,500 ft. ✓

Drill 6 1/4" hole through the Buckhorn sandstone at an estimated total depth of 6,500 ft. ✓

Run 4 1/2" casing if productive. ✓

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED M. C. Wassman TITLE Treasurer DATE July 11, 1968

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY Clem Fright TITLE Director DATE 7-7-68

CONDITIONS OF APPROVAL, IF ANY:
This approval is conditional upon the filing of a bond with the Division of State Lands.

*See Instructions On Reverse Side

43-019-30013

DESIGNATION OF AGENT

Supervisor, Oil and Gas Operations:

The undersigned is, on the records of the Geological Survey, Unit Operator under the Horse Point unit agreement, Grand and Uintah Counties County, Utah (state), No. 14-08-0001 7731 approved 8-8-61 and hereby designates:

NAME: Oil Incorporated
ADDRESS: Suite 240 ; Federal Security Building
72 East Fourth South
Salt Lake City, Utah 84111

as its agent, with full authority to act in its behalf in complying with the terms of the Unit Agreement and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Oil and Gas Operating Regulations with respect to drilling, testing and completing unit well No. M-6, in the NE 1/4 SE 1/4 sec. 32, T. 16S., R. 24E., SLB 8M., Grand County, Utah.

It is understood that this designation of agent does not relieve the Unit Operator of responsibility for compliance with the terms of the unit agreement and the Oil and Gas Operating Regulations. It is also understood that this designation of agent does not constitute an assignment of any interest under the unit agreement or any lease committed thereto.

In case of default on the part of the designated agent, the Unit Operator will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The Unit Operator agrees promptly to notify the oil and gas supervisor of any change in the designated agent.

This designation of agent is deemed to be temporary and in no manner a permanent arrangement.

This designation is given only to enable the agent herein designated to drill the above-specified unit well. Unless sooner terminated, this designation shall terminate when there is filed in the appropriate district office of the U. S. Geological Survey a completed file of all required Federal reports pertaining to subject well. It is also understood that this designation of agent is limited to field operations and does not cover administrative action requiring specific authorization of the Unit Operator.

GETTY OIL COMPANY

Unit Operator

By: Floyd A. Armstrong
Attorney-in-Fact

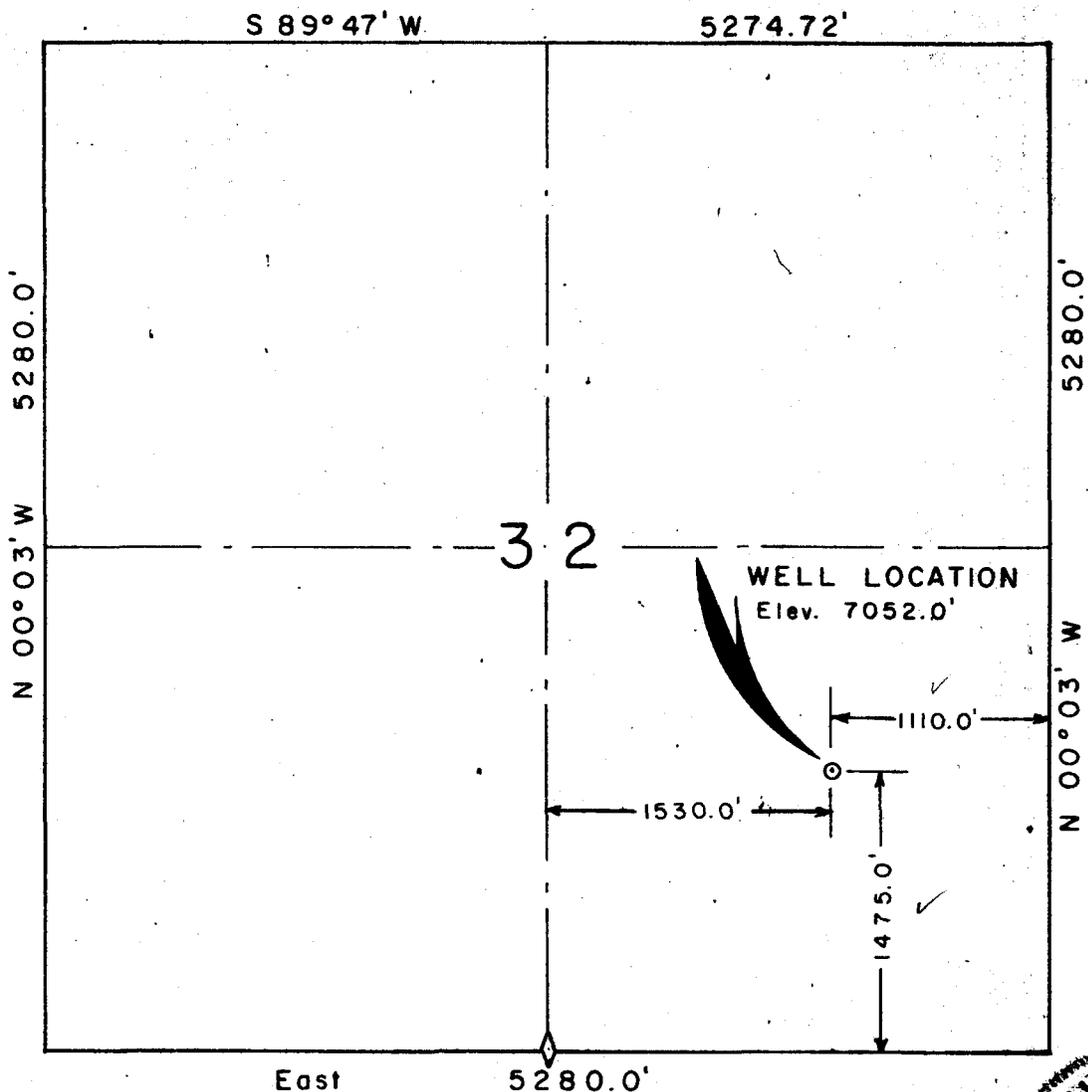
JUL 16 1968

Date

WELL LOCATION
M-6
1475' NSL - 1110' WEL
Sec. 32, T16S R24E
SLB 8 M



Scale 1" = 1000'



Note: Elev. referred to M-4 location 6968.0'



I, William F. Quinn, do hereby certify that this plat was plotted from notes of a field survey made under my supervision on June 10, 1968.

William F. Quinn
Registered Land Surveyor

WESTERN ENGINEERS, INC.
WELL LOCATION
OIL INCORPORATED
WESTWATER JOINT VENTURE
M-6 LOCATION
GRAND COUNTY, UTAH

Surveyed W.F.Q. Drawn R.W.Q.

GRAND JUNCTION, COLO. 6/11/68

August 6, 1968

Mr. Rodney Smith
U. S. Geological Survey
8416 Federal Building
125 South State Street
Salt Lake City, Utah 84111

Dear Mr. Smith:

Pursuant to our telephone conversation, this afternoon, we are submitting in triplicate "Designation of Agent" to Oil Incorporated by Getty Oil Company, Unit Operator under the Horse Point unit agreement No. 14-08-0001-7731 covering well No. M-6, Lease No. ML 21613, for your approval, and to be attached and made part of Application for drilling in your possession.

Very truly yours,

OIL INCORPORATED

M. C. Wissmar
Treasurer

MOW:vw
Enclosures

cc: Mr. Cleon Feight
Division of Oil & Gas Conservation



OIL INCORPORATED

Salt Lake City, Utah 84111

August 6, 1968

Suite 240
Federated Security Building
72 East Fourth South
Phone (801) 364-1103

Mr. Cleon Feight
Division of Oil & Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84116

Dear Mr. Feight:

Enclosed, herewith in duplicate, Form 9-331-C "Application for Permit to Drill. . ." on Lease No. ML 21613 Well No. M-6, as approved by the U. S. G. S., Salt Lake City, Utah, subject to our conversation of this date and would appreciate your approval by returning one copy to this office.

Very truly yours,

OIL INCORPORATED

M. C. Wissmar
Treasurer

MCW:vw
Enclosures

cc: Mr. Rodney Smith
U. S. Geological Survey

PI *plm*

OIL INCORPORATED
72 East Fourth South - Suite 240
Salt Lake City, Utah 84111

October 24, 1968

~~Mr. Rodney A. Smith, District Engineer
U. S. Geological Survey
8416 Federal Building
125 South State Street
Salt Lake City, Utah 84111~~

Re: Lease No. ML 21613 - Section 32
T. 16S, R. 24E., SLB&M, Well No. M-6
Grand County, Utah - Horse Point Unit

Dear Mr. Smith:

Enclosed, in triplicate, Form 9-331 dated October 24, 1968,
Sundry Notices and Reports on Wells, on subject well together
with three conformed copies for you to approve and return to us.

Very truly yours,

OIL INCORPORATED

M. C. Wissmar
M. C. Wissmar
Treasurer

MCW:vw
Enclosures

~~cc: w/duplicate enclosure (one for approval and return)
Mr. Cleon B. Feight, Executive Director
Division of Oil & Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84116~~

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN REPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

ML 21613

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Horse Point

8. FARM OR LEASE NAME

9. WELL NO.

M-6

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 32, T. 16S, R. 24E, S1E4M

14. PERMIT NO.

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

GR 7,052.0

12. COUNTY OR PARISH 13. STATE

Grand

Utah

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) **Setting surface casing**

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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

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

October 22, 1968

Surface casing set to depth of 150'.

Casing 9-5/8" - 32 lbs.

Casing cemented to surface w/54 sacks cement.

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

SIGNED *M. C. Wissman*

TITLE **Treasurer**

DATE **Oct. 24, 1968**

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:



OIL INCORPORATED

Salt Lake City, Utah 84111

5276 240
Federated Security Building
72 East Fourth Street
Phone (801) 364-1103

Midwest Oil Corporation
1700 Broadway
Denver, Colorado 80202

Attention: Mr. Boring

Horse Point Unit Well No. M-6
Lease No. ML 21613

November 5, 1968

Sec. 32, T. 16S, R. 24E
Grand County, Utah

per attached memorandum
dated November 4, 1968
as directed to WJV members
and OI Board of Directors.

cc: Ben Jones - Getty Oil
Rod Smith - USGS
~~Cleon Feight - O&GC~~



OIL INCORPORATED

Salt Lake City, Utah 84111

November 4, 1968

Suite 240
Federated Security Building
72 East Fourth South
Phone (801) 364-1103

MEMORANDUM

TO: Members of the Westwater Joint Venture &
Board of Directors of Oil Incorporated

FROM: James A. Murphy

In Grand Junction on November 1, 1968, M-6 well out at well site. Discussed completion with Mr. Walsh and was advised that 4 1/2 casing was on its way from Farmington and had left Grand Junction at 1:30 P.M. due on location between 5:00 P.M. and 6:00 P.M. (Actual arrival time approximately 6:00 P.M.) While on location well was tested with drill pipe raised to 240 feet off bottom (TD is 6,256'). Well stabilized approximately 30 minutes, dead weight approximately 3 million cubic feet. Walsh suggested that completion procedures be similar to rework procedures on M-4 well including sand frac. Further, he suggested that we run 2 3/16" tubing of which we had 38 joints on hand and we would buy the rest as good condition used tubing from Pease. Tubing would be run to TD. Anticipate total completion costs \$30,000.00 including sand frac. Contractually, the well is Pease's until completion at which time Oil Incorporated as operator of the Westwater Joint Venture takes responsibility of the well. At about 9:00 P.M. the drilling pipe was being pulled, they were at the last joint. The valve on the blow off line was supposed to be opened by one of Mr. Pease's employees. It apparently was not open or was partially open or was blocked by some foreign matter. Gas escaped through the Braden-Head and apparently was ignited on the rig causing an explosion and burning of the gas and subsequent burning of the rig. No personnel were injured. The burning of the rig was controlled and the well was killed at approximately 8:00 P.M. Saturday by the injection of fluids. We are attempting to contact Pease now to determine what further steps he is going to take to place this well into production. Certain difficulties are anticipated as a result of the fluids on the uncased portion of the well below the Castlegate formation at 2,368' i.e., approximately 3,900 feet of open hole primarily consisting of Mancos shale.

Talked with Willard Pease on Monday, November 4, 1968, regarding the M-6 well. He advised that the well was killed with 149 barrels of fluid, the mud having a 50 viscosity. This 149 barrels of fluid would give a total depth in the well bore of 3,750 feet with a total of 1,600 pounds hydrostatic head. Pease said that in checking the well on Sunday, that it appeared to be

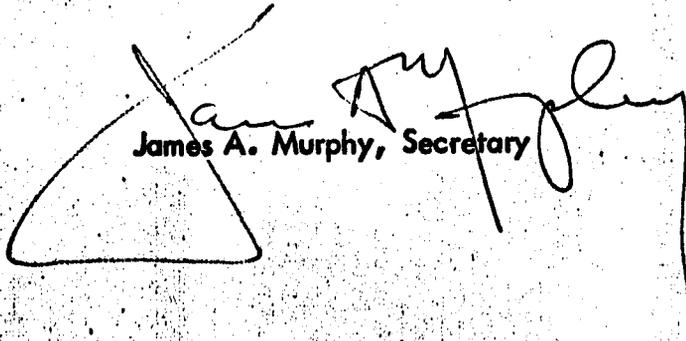
November 4, 1968

Members of Westwater Joint Venture
Board of Directors of Oil Incorporated

controlled, that a valve was implaced so that completion could be accomplished as soon as a rig was available. Rig availability is the tough question and he is looking for a rig throughout the country. He will keep us advised as to the availability and when he will move on the location once again. I informed Pease that Walsh had ordered the metering equipment and that as soon as the well was completed, it would be placed in production by delivery of the gas to the 3 1/2" line at the M-4 well.

Very truly yours,

OIL INCORPORATED



James A. Murphy, Secretary

JAM/mas

PI

OIL INCORPORATED
72 East Fourth South - Suite 240
Salt Lake City, Utah 84111

November 6, 1968

Mr. Rodney A. Smith, District Engineer
U. S. Geological Survey
8416 Federal Building
125 South State
Salt Lake City, Utah 84111

Re: Lease No. ML 21613 - Section 32
T. 16S, R. 24E., SLB&M, Well No. M-6
Grand County, Utah - Horse Point Unit

Dear Mr. Smith:

Enclosed in triplicate, Form 9-331 dated November 6, 1968,
Sundry Notices and Reports on Wells, Intermediate Casing, on
subject well together with three conformed copies for you to
approve and return to us.

Very truly yours,

OIL INCORPORATED



M. C. Wissmar
Treasurer

MCW:vw
Enclosures

cc: w/duplicate enclosure (one for approval and return)
Mr. Cleon B. Feight, Executive Director
Division of Oil & Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84116

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
ML 21613

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

1. OIL WELL GAS WELL OTHER

7. UNIT AGREEMENT NAME
Horse Point

2. NAME OF OPERATOR
Oil Incorporated, designated Operator-Agent

8. FARM OR LEASE NAME

3. ADDRESS OF OPERATOR
72 East Fourth South, Suite 240, Salt Lake City, Utah 84111

9. WELL NO.
M-6

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface **1475' N. of S. Line and 1110' W. of E. line
of Section 32**

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 32, T. 16S, R. 24E, SLB&A

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
GR 7,052.0

12. COUNTY OR PARISH 13. STATE

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

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

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

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

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

October 27, 1968

Intermediate casing 7" - 23 lbs. Ran 78 joints to 2,514 ft. K.B.

Set with 50 sacks cement - 2% calcium chloride

Plugged down 3:00 P.M.

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

SIGNED M.C. Wiseman

TITLE Treasurer

DATE Nov. 6, 1968

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

9/13

Shannon

January 9, 1969

Mr. Rodney A. Smith, District Engineer
U. S. Geological Survey
8416 Federal Building
125 South State
Salt Lake City, Utah 84111

Re: Lease No. ML 21613 - Section 32
T. 16S, R. 24E., SLB&M, Well No. M-6
Grand County, Utah - Horse Point Unit

Dear Mr. Smith:

Enclosed in triplicate, Form 9-331 dated January 9, 1969,
Sundry Notices and Reports on Wells, Production Casing, on
subject well together with three conformed copies for you to
approve and return to us.'

Very truly yours,

OIL INCORPORATED

M. C. Wissmar
M. C. Wissmar
Treasurer

MCW:vw
Enclosures

9 subsequent report

✓ cc: w/duplicate enclosure (one for approval and return)
Mr. Cleon B. Feight, Executive Director
Division of Oil & Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84116

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

ML 21613

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Horse Point

8. FARM OR LEASE NAME

9. WELL NO.

M-6

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 32, T. 16S, R. 24E

SLB&M

OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

Oil Incorporated, designated Operator-Agent

3. ADDRESS OF OPERATOR

72 East Fourth South, Suite 240, Salt Lake City, Utah 84111

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

1475' N. of S. Line and 1110' W. of E. line
of Section 32

14. PERMIT NO.

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

GR 7, 052.0

12. COUNTY OR PARISH

Grand

13. STATE

Utah

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

Production casing

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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

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

January 3, 1969

Ran 4 1/2" new casing to 6266 ft. KB with guide shoe on bottom

and float collar on first joint up. Cemented with 100 sx.

regular cement and displaced with 101 barrels water.

Plus down at 6:00 A. M.

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

SIGNED

M. C. Wiseman

TITLE

Treasurer

DATE

January 9, 1969

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special		Test Date	
Company Oil Incorporated		Connection Grand Valley Transmission Co.	
Pool Undesignated		Formation Dakota	Unit Horsepoint Unit
Completion Date 1-10-69	Total Depth 6240	Plug Back TD 6196	Elevation 7052
Csg. Size 4 1/2	Wt. 9.50	d	Set At 6266
Perforations: From 6149 To 6169	Well No. M-6		
Tbg. Size 1 1/2	Wt.	d	Set At 6144
Perforations: From 6132 To 6144	Unit 32	Sec. 16S	Twp. 24E
Type Well - Single - Broadhead - G.G. or G.O. Multiple Single		Packer Set At None	
Producing Thru Casg.		Reservoir Temp. °F 150	Mean Annual Temp. °F 6261
Baro. Press. - P _e 12.0		State Utah	
L --	H --	Gg .610	% CO ₂ --
% N ₂ --	% H ₂ S --	Prover 2"	Meter Run --
Taps --			

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F		Press. p.s.i.g.
SI							1026		1026	
1.	2		1/2"	796		62°	826		796	
2.			3/4"	512		68°	623		512	
3.			1"	309		70°	488		309	
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	5.5233		808	.9981	.9918	1.076	4,753
2	12.2023		524	.9924	.9918	1.044	6,570
3	22.0662		321	.9905	.9918	1.024	7,125 ✓
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 1038	P _c ² 1,077,444			(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3021$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1420$
NO	P _w	P _w ²	P _w ² - P _w ²		
1	838	702,244	375,200		
2	635	403,225	674,219		
3	500	250,000	827,444		
4					
5					

ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 8137$

Absolute Open Flow **8137** Mcfd @ 15.025 Angle of Slope @ _____ Slope, n **.50**

Remarks: _____

Approved By Commission: _____ Conducted By: **C. W. Taylor** Calculated By: **David L. Collis** Checked By: **Ewell N. Walsh**

February 13, 1969

Mr. Rodney A. Smith, District Engineer
U. S. Geological Survey
8416 Federal Building
Salt Lake City, Utah 84111

Re: Hiras Point Unit Well M-6
Lease No. ML 21613
Sec. 32, T. 16S, R. 24E
Grand County, Utah

Dear Mr. Smith:

We enclose herewith the following reports on subject well:

U. S. G. S. Form 9-330 - Well Completion or
Recompletion Report, in triplicate, one for approval and return;
M-6 drilling report, in duplicate
M-6 Litho Log, in duplicate
Multipoint Back Pressure Test w/attachment, in duplicate
Completion Report by Walsh Engineering & Prod. Corp., in duplicate
Schlumberger - Induction-Electrical Log, in duplicate
Schlumberger - Sonic Log - Gamma Ray

Would appreciate approval and return of Form 9-330 enclosed for this
purpose.

Very truly yours,

OIL INCORPORATED

M. C. Wisemar

M. C. Wisemar
Treasurer

MCW:vw

cc: w/enclosures

Mr. Claen B. Feight, Executive Director

Division of Oil & Gas Conservation (Form 9-330 in dupl. for approv. & ret.)

Midwest Oil Corporation (Schlumberger logs previously sent)

Willard Pease Drilling Company

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

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5

5. LEASE DESIGNATION AND SERIAL NO.

ML 21613

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Horse Point

8. FARM OR LEASE NAME

9. WELL NO.

M-6

10. FIELD AND POOL, OR WILDCAT

Westwater: Wildcat

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

Sec. 32, T. 16S, R. 24E

12. COUNTY OR PARISH

Grand

13. STATE

Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR. Other _____

2. NAME OF OPERATOR
Oil Incorporated - Designated Operator-Agent

3. ADDRESS OF OPERATOR
72 East Fourth South, Suite 240, Salt Lake City, Utah

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface **1475' f So. Line; 1110' f Ea. Line**
At top prod. interval reported below
At total depth

14. PERMIT NO. _____ DATE ISSUED _____

15. DATE SPUNDED **10/22/68** 16. DATE T.D. REACHED **10/31/68** 17. DATE COMPL. (Ready to prod.) **1/10/69** 18. ELEVATIONS (DF, REB, RT, GR, ETC.)* **6960 ft. graded location** 19. ELEV. CASINGHEAD **6960**

20. TOTAL DEPTH, MD & TVD **6266'** 21. PLUG, BACK T.D., MD & TVD **6196** 22. IF MULTIPLE COMPL., HOW MANY* **single zone** 23. INTERVALS DRILLED BY ROTARY TOOLS **0-6266** CABLE TOOLS _____

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Dakota sandstone 6128-6149; 6155-6157; 6169-6171 25. WAS DIRECTIONAL SURVEY MADE **No**

26. TYPE ELECTRIC AND OTHER LOGS RUN
All Schlumberger - Induction, Electric; Soniclog-Gamma Ray 27. WAS WELL CORED **No**

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	32#	150'	12 1/4"	54 sacks	None
7"	23#	2514'	8-3/4"	50 sacks	None
4-1/2"	9.5 & 10.5	6266'	6-1/8"	100 sacks	None

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
1 1/2"	6144	None

31. PERFORATION RECORD (Interval, size and number)
6169-71, 6155-57 and 6128-49 with 4 hyperjest per foot

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6149-6169	26,000 gals water and 27,000 lbs. sand

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
	Flowing	Shut-in					
DATE OF TEST 1/29/69	HOURS TESTED 3 hrs.	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL. --	GAS—MCF. 891	WATER—BBL. --	GAS-OIL RATIO --
FLOW. TUBING PRESS. 488	CASING PRESSURE 309	CALCULATED 24-HOUR RATE	OIL—BBL. --	GAS—MCF. 7,125	WATER—BBL. --	OIL GRAVITY-API (CORR.) --	

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

35. LIST OF ATTACHMENTS
Drilling History

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

SIGNED M. C. Wassman TITLE **Treasurer** DATE **Feb. 13, 1969**

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

INSTRUCTIONS

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

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

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

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

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

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

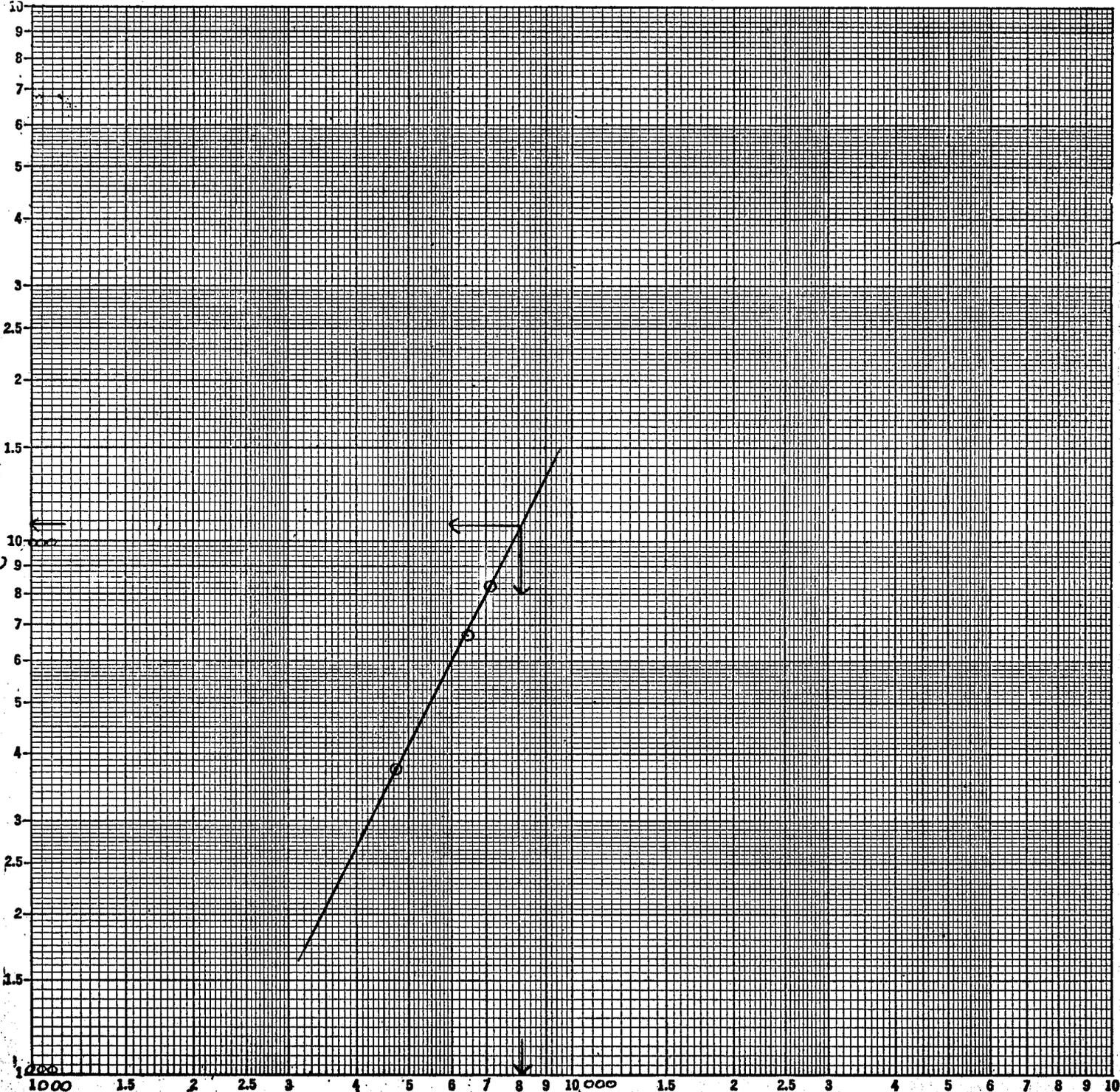
FORMATION		TOP		BOTTOM		DESCRIPTION, CONTENTS, ETC.		38. GEOLOGIC MARKERS	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH		
Wasatch	surface	not logged	Interbedded sandstone and shale						
Mesa Verde			Encountered enough salt water at 1046' to commence mist drilling. Water was negative as a consistent source of supply.	Mesa Verde Fm	1960'				
Sego SS	1960	1990	Light gray, very fine friable Possible slight increase in salty water	Sego ss	2340'				
Castlegate SS	2340	2350	Speckled salt and pepper, medium to coarse grained, contained minor gas. No noticeable increase in water.	Castlegate ss					
Dakota sandstone	6132	6190	Gray, medium grained, sub-angular loosely cemented, contained natural gas.	Mancos Fm					
				Dakota Fm					
				"F" zone	5935				
				"F" bottom	5987				
				1st SS	6094				
				gas SS	6128				
				Total Depth	6266 ft.				

FEB 14 1969

Oil Incorporated
 Horn Point Unit, Well No. M-6
 NESE Sec. 32-T16S-R24E
 Grand County, Utah
 February 12, 1969

CHARLES BRUNING COMPANY, Inc.
 MADE IN U.S.A.

BRUNING 700-2L
 LOGARITHMIC - 2 X 2 CYCLES
 $P_e^2 - P_w^2$ (thands)



Q - MCFD ✓
 AOF = 8,137

1A-6 Litho by 1

- 1900-10 ~~1776~~ Sample all asavings
- 20 Sandstone light gray, fine grain friable, pred, as loose grains - no visible stain
- 30 sample all asavings
- 40 " " " "
- 50 " " " "
- 60
- 70
- 1970-80 Shale w loose sand grains
- 80-90 sample missing
- 1990-2000 Sandstone as below
- 2000-10 Sandstone, light gray, very fine, friable all as loose sand grains - no visible stain or fluorescence.
- 20 ss. as above
- 30 Shale light gray soft bentonitic - all savings this is too abrupt of change - something wrong
- 40 shale, as above very carbonaceous
- 50 shale " " " some coal
- 60 shale " " light gray soft bentonitic
- 70 shale " " " "
- 80 Shale
- 90 shale
- 2100 shale

samples from 2020 to 2100 presumably all by "chucks" of shale savings.

M-6 Litho

Pg 2

(1st sample located at)

2150-10 siltstone, hard shaly

21 -20 shale, dark gray silty

-30 shale, " "

-40 shale, " "

-50 shale, dark gray silty to gray siltstone

2160-70 shale, dark gray silty to gray siltstone
both samples marked the same

2160-90 shale, dark gray bentonitic

-80 shale dark gray bentonitic

-90 shale " " "

-2230 shale " " silty

2200-2210 shale " " soft

-2220 shale " " "

-30 shale " " silty

-40 shale " " "

-50 shale " " "

-60 shale " " "

-70 shale " " "

-80 shale " " "

90 shale " " "

2350 shale " " "

10 shale " " "

20 shale " " "

30 shale " " "

40 missing

-50 shale " " bentonitic

1.
KC9-

M-6 Litho Pg 3

2350-60	shale	Dark gray	laminated - Cons. Cavings
-70	shale	" "	" mostly "
-80	shale	" "	" "
-90	sandstone		
-2400	sandstone		
10	shale	light gray	soft. w lots of loose ss grains
20	shale	" "	" " " " " "
30	shale	" "	" " " " " "
40	shale	silty w siltstone ribs	
50	shale	" "	" "
60	shale	gray to dark gray	
70	shale	" " "	
2470-2500	shale	dark gray	silty in part
	shale		

2524 Reached at 12:50 AM Sat 12/26
T.D. for 7" casing

M-6 little page 4

5900-10	shale	dark gray silty
-20	shale	" " "
-30	shale	" " "
-40	shale	dark gray (darker than above) ^{silty} less silty
-50	shale	" "
60	shale	" "
70	shale	" "
80	shale	" " silty
90	shale	" " silty
- 6000	shale	" "
- 10	shale	" "
-20	shale	" "
-30	shale	" "
-40	shale	" "
-50	siltstone	light gray " F 6048'
-60	siltstone	" " shaly
-70	shale	dark gray-black, coaly to coal, gray and and siltstone as above.
-80	shale	dark gray-black; coaly to coal
-90	shale	gray light gray silty in part
-6100	shale	" " "
6100-6110	shale	gray-dark gray
- 20	shale	light gray silty
-30	shale	" " "
-40	shale	" " "
50	shale	" " "
6157	sandstone	" " fine grain, subrounded well sorted, gas ignited @ 6157'
		Air sample - No fluorescence
6256	T.D.	- No sample after ignition

M-6 Litho pg 5

? - 6250 Sandstone light brown, fine to medium grain
subrounded well sorted - friable - all ss base ss grain

This sample was ~~sample~~ taken from a well plug
in block line - don't know when it had last been
emptied - sample was uniform but don't actually
know from where this came from - doesn't look like
Buchhorn ss

6256 TD: Sandstone medium grey - very fine to silty; argillaceous
shaley poorly sorted, undoubtedly lot of shale
still air sampler
T.D.

March 18, 1969

The State of Utah
Division of State Lands
105 State Capitol Building
Salt Lake City, Utah

Attention: Donald G. Prince, Economic Geographer

Re: Mineral Lease 21613 - T. 16S, R. 24E, SLM, Grand County
Sec. 32: All

Gentlemen:

On March 14, 1969, we submitted our lease rental check No. 1167 in the amount of \$640.00 covering rental at \$1.00 per acre on subject lease, for the period May 1, 1969 to April 30, 1970.

Yesterday this office received a telephone call from your department advising us that this lease would terminate May 1, 1969 unless we filed the proper papers with a \$5.00 filing fee to extend the life of this lease for two years beginning May 1, 1969.

For your information there is a producing well on this lease which went on stream February 11, 1969, producing 32,626 Mcf. gas during the month of February. This well was completed in mid-January, 1969 and all drilling reports, logs, and sundry information were filed with Mr. Cleon B. Feight, Executive Director, Division of Oil and Gas Conservation as evidenced by copy of the attached letter, dated 2/13/69.

As this is a producing well it is our understanding that this lease will be held by production. We would appreciate hearing from you as to the status of this lease and if there is any information you need please feel free to contact this office.

Very truly yours,

WESTWATER JOINT VENTURE


M. C. Wissmar, Treasurer

MCW:vw
attachment

cc: Sheridan L. McGarry, 1414 Walker Bank Building, SLC
✓Cleon B. Feight, O&GC, SLC

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah State ML 21613

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL GAS WELL OTHER

7. UNIT AGREEMENT NAME

Horse Point

2. NAME OF OPERATOR
Polumbus Petroleum Corporation

8. FARM OR LEASE NAME

3. ADDRESS OF OPERATOR
Three Park Central, Suite 200, 1515 Arapahoe, Denver, CO 80202

9. WELL NO.

M-6

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

10. FIELD AND POOL, OR WILDCAT

Westwater

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

1475' FSL and 1110' FEL of Section 32

Sec. 32, T16S, R24E

14. PERMIT NO.

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

6966' KB

12. COUNTY OR PARISH

Grand

Utah

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANS

(Other)

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

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

SEE ATTACHED WORKOVER PROCEDURE.

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING

DATE: Sept. 7, 1977

BY: A. K. Ansell

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

SIGNED

District Superintendent

TITLE Southern Rockies Division

DATE 9/1/77

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

WORKOVER PROCEDURE

Well No. M-6
Westwater and Horse Point

1. MIR. Load hole w/2% KCL water. Check PBTD 6240 for fill and POOH with 1-1/4" I.J. tubing.
2. Run cement bond log from PBTD 6240 to 5800' \pm .
3. Run GR-TDT log from 6240 to 6000' \pm . (Note OH sonic log on file).
4. Based on TDT and logs on file perforate productive intervals 6092-6098; 6108-6114; 6165-6176; and 6182 to 6186 w/casing gun 2 SPF.
5. RIH w/RBP, PKR and 2" work string and selectively break down perfs with acid. Test Annulds to 3000 psi.
6. POOH w/tubing, PKR and RBP.
7. Frac treat perfs via 4-1/2 casing with 40,000 gals 2% KCL water gel and 40,000 #'s sand using ball sealers with nitrogen.
8. Flow and clean up well.
9. Clean out to PBTD w/2" tubing if required.
10. If commercial production of dry gas, complete with PKR set @ 6120 w/1-1/2" IJ tubing, produce perfs 6092-6098 and 6108-6114 via CSG Annulus and perfs below via tubing.

WELL BORE DATA

Well, No. M-6

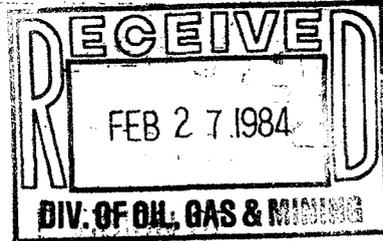
9-5/8 32# set @ 150' w/ 54 sacks cement. 7" set @ 2514' w/50 sacks cement.
4-1/2 10.5#, 9.5# J-55 set @ 6266' w/100 sacks cement. 1-1/2 IJ tubing set @ 6144
(No PKR).

Producing perfs 6128-6149, 6155-57, 6169-71. Casing tst to 3000 psi 1-8-69.
Treated perfs w/27,000 #'s 20-40 sand. OH sonic log TD to 4750.

J. C. THOMPSON
INDEPENDENT OIL OPERATOR
410 - 17TH STREET, SUITE 1305
DENVER, COLORADO 80202

February 14, 1984

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining
4241 State Office Bldg.
Salt Lake City, UT 84114



Attn: Claudia Jones
Well Records Specialist

RE: Utah Operated Wells

Dear Claudia,

Pursuant to your request, attached is a list of all producing wells which are operated by J. C. Thompson in the state of Utah.

Very truly yours,

A handwritten signature in cursive script, appearing to read "Sandra S. Brown". The ink is dark and the signature is written in a fluid, connected style.

Sandra S. Brown

Enclosure

WALSH
ENGINEERING & PRODUCTION
CORPORATION

PETROLEUM CLUB PLAZA BUILDING
P. O. BOX 254
FARMINGTON, NEW MEXICO 87401

LEASE MANAGEMENT
CONTRACT PUMPING
DRILLING SUPERVISION
WORKOVER SUPERVISION

TELEPHONE 325-8203

OIL INCORPORATED
Horsepoint Unit, Well M-6
NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 32-T16S-R24E
Grand County, Utah

- 12-28 to 12-29-68 Willard Pease Drilling Company Rig No moving on location and rigging up.
- 12-30-68 Complete rigging up, mix mud start picking up drillpipe.
- 12-31-68 Pick up drill pipe and mix mud. Circulate at 4983'. Circulate at 6010'. Had bridge at 6010'.
- 1-1-69 Circulate and ream hole from 6010' to 6256'. Condition hole to log.
- 1-2-69 Ran Schlumberger IES log from 2498' to 6261'. Ran Sonic, Gamma Ray, Caliper Log from 4750' to 6261'. Ran Gamma Ray log from 1700' to 2550'. Conditioned hole and lay down drill pipe. Start running casing.
- 1-3-69 Ran 194 jts 4 $\frac{1}{2}$ ", 10.50# and 9.50#, J-55 casing. Cemented with 100 sacks regular cement. Casing set at 6266'. Plug down at 6:00 P.M. W.O.C.
- 1-4-69 Moving frac tanks on location. Start filling frac tanks W.O.C.
- 1-5-69 Filling frac tanks W.O.C.
- 1-6-69 Complete filling frac tanks W.O.C. W. O. truck to move tubing.
- 1-7-69 W.O.C. Start moving 1 $\frac{1}{2}$ " I. J. tubing to location
- 1-8-69 Complete picking up 1 $\frac{1}{2}$ " I. J. tubing. Tagged cleanout depth at 6240'. Pressured up casing and wellhead to 3000 psi. Test O.K. Displaced water

in casing with 2% calcium chloride water with slick gel. Spotted 250 gallons of 15% MCA across interval to perforate. Pulled tubing. Ran Schlumberger Perforating Depth Control Log from 6196 to 5600' and 2500' to 2100'. Perforated 6169-71, 6155-57 and 6128-49 with 4 hyperjets per foot. Halliburton hooked up to frac. Sandwater frac perforated interval in Dakota Formation with:

1. 26,000 gallons water with 2% calcium chloride, 0.8#/gal Slickgel and 2.0 gal/1000 gal Foaming agent.
2. 27,000 pounds 20-40 sand
3. Flush 2830 gallons
4. Break down pressure 2600 psig. (Pump in)
5. Maximum treating pressure 2600 psig.
6. Average treating pressure 2600 psig.
7. Average injection rate 40 BPM
8. Hydraulic Horsepower 2520.
9. Instantaneous SIP 900 psig.
10. 5 minute SIP 400 psig.
11. 10 minute SIP NONE psig.
12. Injected 20 rubber balls halfway through treatment - no increase, injected 20 rubber balls three-fourths way through treatment - no increase.

1-9-69

Hooked up gas line to blow down and clean out well. Blew frac water out of casing from 2100' to 4850' and well started cleaning up without outside gas. Put tubing disk in tubing, ran remaining tubing. Tagged fillup in casing at 6165'. Estimate well producing 5,000 to 6,000 MCF per day while cleaning up. Could not get pipe rams to hold when tried to land tubing. Well cleaning up and gas increasing. Estimate well producing 8,000 to 10,000 MCF per day.

1-10-69

Mixed 2% Calcium Chloride water. Pump 100 bbls water in well, well in vacuum. Landed tubing on donut. Ran 189 jts., 1½", I. J., #/ft. tubing (6139.56') landed at 6143.56'. Removed B.O.P. installed rest of xmas tree. Dropped bar to break disk. Opened well through tubing to pit. Had pressure on tubing and annulus. Tubing blew down. Put 4 soap sticks in tubing.

3102

DRILLING REPORT

HORSE POINT UNIT
Westwater Area
Well #M-6

LEASE: Utah State ML - 21613

FARMOUT FROM: Midwest Oil Company

OPERATOR: Willard Pease and Oil Incorporated

LOCATION: Grand County, Utah
Section 32, Twn. 16S, Rn 24E
1475' f So. Line; 1110' f East Line
NE 1/4 SE 1/4 Section 32

ELEVATION: G. L. 6968' (Before location cut)
G. L. 6960' (Estimate after cut)
KB. 6966' (For both rigs)

CONTRACTOR: Willard Pease Drilling Company
Rig #1 T. L. Allred, Pusher

REPORT BY: Max Krey, Geologist

DRILLING HISTORY

10/15/68 Started moving in rotary drilling equipment; Pease Drilling Company Rig #1.

10/21/68 Rigging up rotary rig.

10/22/68 Drilled surface hole to 150'. Reamed to 12-1/4". Ran 5 joints 9-5/8 32# surface casing, set at 150' W 54 sx cement. Cement to surface.

10/23/68 Blow surface casing dry, commenced drilling new hole drilling ahead at 156' at 6 a.m., dry and dusting. 1/4 degree deviation at 837'.

10/24/68 8 a.m. Drilling ahead at 1200'; encountered formational water at 1046. Commenced soap injection, drilling ahead. Trip for Bit #3 at 1435'. Drlg at 1578 @ 5 p.m.; 1-3/4 degree deviation at 1350'.

10/25/68 Shut down for 7 hrs. waiting on water for mist and soap injection, also worked on injection pump. Formational water has increased - no particular zone, but seemingly a gradual increase. Drlg ahead at 1952' at 7 a.m. Drilling at 1"/ft, but can't keep hole clean at that rate. 2 compressors, but no booster. Trip for Bit #4 at 2062. 1-3/4 degree dev. at 1885'. Lighted flare for blooie line at 2365'. There was gas at blooie line at the time of ignition. Burned fairly continuously thereafter.

Drilling ahead. Samples poor, especially so after ignition, as can only catch samples when fire is out. Difficult to estimate gas volume because of water being injected plus formational water. The formational water kills the gas flow when shut down for testing.

- 10/26/68 Drilled to 2524' by 1:30 a.m. Stopped drilling to run 7" intermediate casing. Waiting on casing. (2 truck broke down getting casing to location.) Gas flow declining, but difficult to keep hole clean for test.
- 10/27/68 Made trip to clean hole. Couldn't unload hole of water. Blowing, injecting trying to get back to bottom.
9 a.m. Coming out of hole to run casing. Run 78 joints 7" casing set at 2514 KB Halliburton cements with 50 sx cement. Plug down at 3 p.m. (Halliburton circulated last joint of casing to bottom.)
- 10/28/68 Nipple up to 7" casing; blow casing dry; drilling shoe at 3 p.m. deviation is 2 degrees at 3030. Drilling at 3051 at midnite with 6-1/8" bit #5. Dusting well.
- 10/29/68 On bottom with bit #6 at 3710' @ 12:30 p.m. 3 p.m. drilling at 3875', average approximate 1ft./minute. Lost dust at 3230 after shutdown for repairs. Minor water to cause dampness after trips or other down time. 1-1/2 degree deviation at 4400'.
- 10/30/68 8 a.m. drilling at 4745'. 6 p.m. drilling at 5503, 4 degree deviation @ 5300'. Bit #7 on at 4588.
- 10/31/68 Trip for Bit #8 @ 5550'. 3-1/2 degree deviation; put on Button Bit. 7 a.m. drilling ahead at 5853. Dusting well; no gas at blooie line. Gas ignited from blooie line at 6157 at approximately 9 p.m.; continued drilling.
 Drilled to 6256' at approximately 11:00 p.m. Shut down to wait for casing. Did not guage gas flow from blooie line. Geologist left location.

J. C. THOMPSON

INDEPENDENT OIL OPERATOR
6500 SOUTH QUEBEC, SUITE 210
ENGLEWOOD, COLORADO 80111

January 21, 1993

RECEIVED

JAN 25 1993

DIVISION OF
OIL GAS & MINING

State of Utah
Department of Natural Resources
Division of Oil, Gas & Mining
Attn: Don Staley
355 West North Temple
3 Triad Center; Suite 350
Salt Lake City, UT 84180-1203

Re: Annual Status Reports on Shut-in, Temporarily-abandoned, and
Suspended-Drilling Wells

Dear Mr. Staley:

Enclosed for your approval are Sundry Notices for wells in
Utah operated by J.C. Thompson which are currently shut-in. If you
have any questions, please contact our office.

Sincerely,

Brenda K. Mayland

Brenda K. Mayland

Enclosures

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

5. Lease Designation and Serial Number:

ML-21613

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

Horse Point

8. Well Name and Number:

M-6

9. API Well Number:

4301930013

10. Field and Pool, or Wildcat:

Westwater

1. Type of Well: OIL GAS OTHER:

2. Name of Operator:
J.C. THOMPSON

3. Address and Telephone Number:
6500 S. QUEBEC: SUITE 210: ENGLEWOOD, CO 80111 (303) 220-7772

4. Location of Well
Footages: 1475' F3L 1110' FEL

County: GRAND

QQ, Sec., T., R., M.: NESE Sec. 32-T16S-R24E

State: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT
(Submit in Duplicate)

- Abandonment
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Multiple Completion
- Other _____
- New Construction
- Pull or Alter Casing
- Recompletion
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Approximate date work will start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

- Abandonment *
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Other _____
- New Construction
- Pull or Alter Casing
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

ANNUAL STATUS REPORT

Well has been shut in since June 1990 due to low gas prices. Expect to turn on this year.

RECEIVED

JAN 25 1993

DIVISION OF
OIL GAS & MINING

13. Name & Signature: Brenda K Mayland Title: Office mgr. Date: 1/21/93

(This space for State use only)

THE FOLLOWING METERS WILL HAVE CALIBRATION / SETTLEMENT TESTS RUN ON THE DATES INDICATED. STARTING TIME WILL BE 0800 OR AS SPECIFIED BELOW AND AT THE OFFICE OF THE NORTHWEST PIPELINE GRAND JUNCTION DISTRICT YOU WILL BE NOTIFIED SHOULD ANY CHANGES OCCUR IN THIS SCHEDULE. IF YOU HAVE ANY QUESTIONS ABOUT THE SCHEDULE, CONTACT OR WRITE THE DISTRICT OFFICE.

METER CODE	WELL NAME	LOC	RUN	DAY	MO/YR	STARTING TIME
92041018	M-2 17S. 23E. 12	06	03	<u>1</u>	10/85	<u>0800</u>
92050017	HORSE POINT UNIT M-7 17S. 24E. 4	06	03	<u>1</u>	10/85	<u>1100</u>
92259013	WESTWATER #3 17S. 23E. 13	06	03	<u>2</u>	10/85	<u>1000</u>
92263010	FEDERAL D-1 17S. 23E. 11	06	03	<u>2</u>	10/85	<u>1100</u>
92037010	E-5-E 17S. 24E. 18	06	03	<u>5</u>	11/85	<u>0900</u>
92038017	E-2-M 17S. 24E. 7	06	03	<u>5</u>	11/85	<u>1000</u>
92040011	M-1 17S. 23E. 1	06	03	<u>5</u>	11/85	<u>1300</u>
92108015	WESTWATER M-15 17S. 23E. 2	06	03	<u>7</u>	11/85	<u>1000</u>
92051013	SEGUNDO #2 16S. 21E. 33	06	03	<u>3</u>	12/85	<u>1100</u>
92052010	SEGUNDO #23-4 17S. 21E. 4	06	03	<u>3</u>	12/85	<u>1300</u>
92053016	MOUNTRIDGE #31-15 16S. 21E. 15.	06	03	<u>4</u>	12/85	<u>1100</u>
92262014	FEDERAL C-1 17S. 23E. 12	06	03	<u>6</u>	12/85	<u>0900</u>
92301010	WESTWATER #5 17S. 24E. 18	06	03	<u>6</u>	12/85	<u>1100</u>
92039013	E-3-M 17S. 24E. 17	06	07	<u>9</u>	10/85	<u>0830</u>
92042014	M-3 17S. 24E. 7	06	07	<u>9</u>	10/85	<u>1000</u>
92043010	FEDERAL #1 17S. 23E. 13	06	07	<u>9</u>	10/85	<u>0930</u>
92048012	HORSE POINT UNIT M-4 17S. 24E. 6	06	07	<u>10</u>	10/85	<u>1000</u>
92049019	HORSE POINT UNIT M-6 16S. 24E. 32	06	07	<u>10</u>	10/85	<u>0900</u>

P

Westwater #3
Sec 13, T17S-R23E, NENW
Grand County, UT

Moon Ridge #31-15
Sec. 15, T17S-R21E NWNE
Grand County, UT

Segundo Canyon 2
Sec 33, T16S-R21E SWSE
Grand County, UT

Segundo Canyon 23-4
Sec. 4, T17S-R21E NESW
Grand County, UT

Westwater M-15
Sec. 2, T17S-R23E NESE
Grand County, UT

Bull Canyon #1 4970
Sec. 4, T20S-R21E SWSE
Grand County, UT

Westwater Federal C#1
Sec. 12, T17S-R23E NENW
Grand County, UT

Westwater Federal D#1
Sec. 11, T17S-R23E SESE
Grand County, UT

Westwater Federal B#1
NWSE Sec. 17-T17S-R24E
Grand County, UT

Westwater #5
NESW Sec. 18-T17S-R24E
Grand County, UT

Bull Canyon #1 104
NWNE Sec. 4, T20S-R21E
Grand County, UT

Federal #1
SWSW Sec. 8-T17S-R24E
Grand County, UT

Castlegate C-2
SWNW Sec. 18-T17S-R24E
Grand County, Ut

Castlegate C-4
NENW Sec. 13-T17S-R23E
Grand County, UT

M-3 Horse Point
NWNW Sec. 7-T17S-R24E
Grand County, UT

M-4
SENE Sec. 6-T17S-R24E
Grand County, UT

M-6 Horse Point ¹⁶
NESE Sec. 32-T17S-R24E
Grand County, UT

E-2
SWSE Sec. 7-T17S-R24E
Grand County, UT

E-3
NENW Sec. 17-T17S-R24E
Grand County, UT

E-5
NWNE Sec. 18-T17S-R24E
Grand County, UT

Dakota M-1
SESW Sec. 1-T17S-R23E
Grand County, UT

Horse Point M-7
SWNW Sec 6-T17S-R24E
Grand County, UT

#1 Fed 675
NENW Sec 10-T20S-R21E
Grand County, UT

Castlegate C-5 (SI)
NWSE Sec. 12-T17S-R23E
Grand County, UT

Castlegate C-6
SENE Sec. 18-T17S-R24E
Grand County, UT

Castlegate C-7
NESE Sec. 7-T17S-R24E
Grand County, UT

Castlegate D-2
NWNE Sec. 18-T17S-R24E
Grand County, UT

Castlegate C-10
NWNE Sec. 13-T17S-R23E
Grand County, UT



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155



IN REPLY REFER TO
3180
UT-922

July 26, 2005

J.C. Thompson Operator, LLC
7979 East Tufts Avenue Parkway, #815
Denver, Colorado 80237-2843

Re: Horse Point Unit
Grand County, Utah

Gentlemen:

On June 6, 2005, we received an indenture dated March 17, 2005, whereby J.C. Thompson resigned as Unit Operator and J.C. Thompson Operator, LLC was designated as Successor Unit Operator for the Horse Point Unit, Grand County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective July 26, 2005. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Horse Point Unit Agreement.

Your Utah statewide oil and gas bond No. 0068 will be used to cover all Federal operations within the Horse Point Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Terry Catlin

Terry Catlin
Acting Chief, Branch of Fluid Minerals

Enclosure

bcc: Field Manager - Moab (w/enclosure)
SITLA
Division of Oil, Gas & Mining
File - Horse Point Unit (w/enclosure)
Agr. Sec. Chron
Reading File
Central Files

UT922:TAThompson:tt:7/26/05

RECEIVED
JUL 28 2005
DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: see attached list
2. NAME OF OPERATOR: J.C. THOMPSON OPERATOR, LLC		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 7979 E Tufts Ave Pkwy #815 CITY Denver STATE CO ZIP 80237		7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: (303) 220-7772		8. WELL NAME and NUMBER: see attached list
4. LOCATION OF WELL FOOTAGES AT SURFACE: QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		9. API NUMBER:
		10. FIELD AND POOL, OR WILDCAT:
		COUNTY: Grand
		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

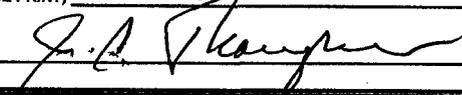
Effective March 17, 2005, J.C. Thompson Operator, LLC became the operator of all wells on the attached list, which were previously operated by J.C. Thompson.

previous operator: J.C. Thompson
7979 E Tufts Ave Pkwy #815 N1240
Denver CO 80237-2873

by: 

new operator: J.C. Thompson Operator, LLC
7979 E Tufts Ave Pkwy #815 N2805
Denver CO 80237-2843

State + Fee BOND # LPM 8756586
BLM Bond # LPM 4021517

NAME (PLEASE PRINT) <u>J.C. Thompson</u>	TITLE <u>Member and Manager</u>
SIGNATURE 	DATE <u>3/17/2005</u>

(This space for State use only)

APPROVED 8/24/05

(52000)

Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

RECEIVED
MAY 25 2005

DIV. OF OIL, GAS & MINING

SCHEDULE OF PROPERTIES

J C Thompson Operator, LLC
(effective March 17, 2005)

<u>API No.</u>	<u>Lease No.</u>	<u>Well Name</u>	<u>Location (Grand County, Utah)</u>	
4301930169	ML-27428	State 428 #1	SWSE	5-T16S-R22E
4301930193	ML-21913	State 913 #1A	C SE	9-T16S-R22E
4301930706	ML-27406	Peterson Springs #1	NWSE	14-T17S-R21E
4301916206	UTU-05109	Horse Point Unit 1-X	NWNE	14-T16S-R23E
4301920154	UTU-020509	Horsepoint M-4	SENE	6-T17S-R24E
4301930013	ML-21613	Horsepoint M-6	NESE	32-T16S-R24E
4301930049	UTU-029600	Horsepoint M-7	SWNW	6-T17S-R24E
4301915671	UTU-02981	Moonridge 31-15	NWNE	15-T16S-R21E
4301915672	UTU-03008A	Segundo #2	SWSE	33-T16S-R21E
4301915673	UTU-04600	Segundo #23-4	NESW	4-T17S-R21E
4301930895	SL-071892	Westwater C-1	NENW	12-T17S-R23E
4301930891	SL-071892	Westwater D-1	SESE	11-T17S-R23E
4301930853	SL-071893	Westwater Unit #3	S2N2NW	13-T17S-R23E
4301930852	SL-071893	Westwater Unit #5	NESW	18-T17S-R24E
4301930892	SL-071892	Westwater B-1	NWSW	17-T17S-R24E
4301915657	SL-071892	Westwater E2	SWSE	7-T17S-R24E
4301915649	SL-071892	Castlegate 2	SWNW	18-T17S-R24E
4301915650	SL-071893	Westwater Castlegate 4	NENE	13-T17S-R23E
4301915652	SL-071892	Westwater Castlegate 6	SENW	18-T17S-R24E
4301915653	UTU-04011	Westwater Castlegate 7	NESE	7-T17S-R24E
4301915656	SL-071892	Castlegate D-2	NWNE	18-T17S-R24E
4301915654	SL-071891	Westwater C9-10	SWSE	10-T17S-R23E
4301930077	SL-071892	Westwater E5	NWNE	18-T17S-R24E
4301915658	SL-071892	Westwater E3	NENW	17-T17S-R24E
4301915662	UTU-04011	Westwater M3	NWNW	7-T17S-R24E

SCHEDULE OF PROPERTIES
J C Thompson Operator, LLC
Page 2

<u>API No.</u>	<u>Lease No.</u>	<u>Well Name</u>	<u>Location (Grand County, Utah)</u>	
4301915660	SL-071567	Westwater M1	SESW	1-T17S-R23E
4301915661	SL-071892	Westwater M2	NWSE	12-T17S-R23E
4301915647	UTU-026A	Bryson Canyon Govt #1	SWSW	8-T17S-R24E
4301930641	UTU-15889	Middle Canyon #4-30	SWSW	30-T16S-R24E
4301930925	UTU-30123	Middle Canyon #11-30	SENW	30-T16S -R24E

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: 7/26/2005

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

DATA ENTRY:

1. Changes entered in the Oil and Gas Database on: 8/24/2005
2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 8/24/2005
3. Bond information entered in RBDMS on: 8/24/2005
4. Fee/State wells attached to bond in RBDMS on: 8/24/2005
5. Injection Projects to new operator in RBDMS on: n/a
6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: U0068

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: n/a

FEE & STATE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The NEW operator of any fee well(s) listed covered by Bond Number LPM8756586**

2. The FORMER operator has requested a release of liability from their bond on: n/a
The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The FORMER operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

** Bond rider deleted J. C. Thompson and added J. C. Thompson Operator, LLC

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-21613
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME: Horse Point
2. NAME OF OPERATOR: J.C. Thompson Operator LLC		8. WELL NAME and NUMBER: Horse Point M-6
3. ADDRESS OF OPERATOR: 8400 E Prentice Ave CITY Greenwood Villag STATE Co ZIP 80111	PHONE NUMBER: (303) 220-7772	9. API NUMBER: 4301930013
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1475 fsl, 1110 fel		10. FIELD AND POOL, OR WILDCAT: Westwater
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 32 16S 24E		COUNTY: Grand
		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>4/1/2007</u>	<input checked="" type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input checked="" type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input checked="" type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	
	<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____		

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This Sundry Notice is being submitted to request approval to plug the Dakota formation in the M-6, and recomplate in the Mancos formation. The Dakota formation in this well is no longer able to produce in profitable quantities. We hope to extend the economic life of this well with a successful Mancos recompletion and avoid permanent plug and abandonment. Because of the age, (1968) weight, grade (9.5# & 10.5# J-55) and lack of cement (100 sacks) protecting the existing production string, we will attempt to cut and pull the existing 4 1/2" casing string and run in with 4 1/2", 11.6#, N-80 casing. This will allow us more options for stimulation after perforating. Attached for your review is the detailed procedure for recompletion.

COPY SENT TO OPERATOR
Date: 2-20-07
Initials: Rm

NAME (PLEASE PRINT) <u>Andrew Busch</u>	TITLE <u>V.P. of Operations</u>
SIGNATURE <u>Andrew Busch</u>	DATE <u>2/9/2007</u>

(This space for State use only)

**APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING**

DATE: 2/16/07 (See Instructions on Reverse Side)
BY: [Signature]

RECEIVED
FEB 15 2007
DIV. OF OIL, GAS & MINING

J.C. Thompson Operator LLC
Horse Point M-6 Mancos Recompletion

Well Name: Horse Point M-6
Location: NESE, Sec.32 – T16S – R24E, Grand County, Utah
Elevation: 7058' KB, 7052' GL
Spud Date: 10/22/68
Completion Date: 1/10/69
TD: 6261'
PBTD: 6240'

Procedure

1. MIRU completion rig.
2. Blow down well. ND wellhead. NU BOP.
3. RIH with tbg to 6180'.
4. Balance 25 sack plug across Dakota perms at 6093' to 6171'. $\rightarrow (25 \text{ sack}) (1.15 \text{ csg/sk}) (10,960) = 315'$
TOC = 5880' ✓_{o.k.}
5. POOH with 40 jts and let cement set.
6. RIH with tbg and confirm plug top is a minimum of 100' above top perforation.
7. Fill casing with 3% KCL water.
8. POOH with tbg.
9. Tie on to 4 1/2" csg.
10. RU wireline. RIH with free point tool and determine cutoff depth (below 3900') in 4 1/2" csg.
11. RD wireline.
12. Blow down 7" X 4 1/2" annulus.
13. RIH with hydraulic 4 1/2" csg cutter to determined depth and cut.
14. POOH and lay down 4 1/2" csg.
15. RIH with tbg to 50' inside of cutoff 4 1/2".
16. Balance 25 sack plug across cutoff.
17. POOH with 40 jts and let cement set.
18. RIH with tbg and confirm plug top is a minimum of 50' above cutoff.
19. POOH with tbg.
20. PU & RIH with 6 1/8" bit.
21. Using a foam/air unit, clean hole down to top of plug at cutoff.
22. POOH with bit.
23. RIH with new 4 1/2", 11.6#, N-80 casing to cleaned out depth.
24. RU cementers.
25. Cement 4 1/2" with a sufficient amount to reach 7" surface casing shoe at 2514'.
26. RD cementers.
27. RIH with bit and scraper. Circulate casing volume with 3% KCl water.
28. Pressure test casing to 4500#.
29. Swab fluid level down to 2000'.
30. POOH with bit and scaper.
31. RU wireline. RIH with CCL and GR. Log from new TD to 2500'.
32. POOH with CCL and GR.
33. RIH with CCL and perforating gun. Perforate Mancos with 4 spf at 3540' to 3600'. Interval may vary slightly depending on new GR log.
34. POOH with CCL and spent gun. RD wireline.
35. RIH with 4 1/2" packer and tbg to 3500'.
36. Swab fluid down then breakdown with 7 1/2% HCL.
37. Swab back acid and flow test well. Analyze flow and pressure data to aid in designing a fracture stimulation.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-21613
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME: Horse Point
2. NAME OF OPERATOR: J.C. Thompson Operator LLC		8. WELL NAME and NUMBER: Horse Point M-6
3. ADDRESS OF OPERATOR: 8400 E Prentice Ave CITY Greenwood Villag STATE Co ZIP 80111		9. API NUMBER: 4301930013
PHONE NUMBER: (303) 220-7772		10. FIELD AND POOL, OR WILDCAT: Westwater
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1475 fsl, 1110 fel		COUNTY: Grand
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 32 16S 24E		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT <i>(Submit in Duplicate)</i> Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT <i>(Submit Original Form Only)</i> Date of work completion: 7/17/2008	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This Sundry Notice is being submitted for notification that National Fuel Corporation has decided to postpone the recompletion of the #M-6 until we have completed further studies on the Mancos formation in the area. The original Notice of Intent Sundry was sent on 2/9/07 and approved on 2/16/08. An additional Sundry Notice will be sent we NFC resumes recompletion operations. Currently the well continues to produce from the Dakota formation.

RECEIVED
JUL 17 2008

DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) <u>Andrew Busch</u>	TITLE <u>V.P. of Operations</u>
SIGNATURE _____	DATE <u>7/17/2008</u>

(This space for State use only)

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET (for state use only)

ROUTING

CDW

X - Change of Operator (Well Sold)

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

6/1/2012

FROM: (Old Operator): N2805- J. C. Thompson 8400 E Prentice Ave, Suite 735 Greenwiid Village, CO 80111 Phone: 1 (303) 220-7772	TO: (New Operator): N8060- National Fuel Corporation 8400 E Prentice Ave, Suite 735 Greenwood Villiage, CO 80111 Phone: 1 (303) 220-7772
---	--

WELL NAME	CA No.			Unit:	API NO	ENTITY NO	Horse Point	
	SEC	TWN	RNG				LEASE TYPE	WELL TYPE
HORSE POINT 1-X	14	160S	230E		4301916206	2420	Federal	GW P
HORSEPOINT U M-4	06	170S	240E		4301920154	295	Federal	GW P
HORSE POINT U M-6	32	160S	240E		4301930013	300	State	GW P

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 8/14/2012
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 8/14/2012
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 8/14/2012
- a. Is the new operator registered in the State of Utah: Business Number: 1260477-0143
- a. (R649-9-2)Waste Management Plan has been received on: Yes
- b. Inspections of LA PA state/fee well sites complete on: N/A
- c. Reports current for Production/Disposition & Sundries on: 8/14/2012
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM Not Yet BIA N/A
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: Not Yet
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
- Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to **Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 8/31/2012
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 8/31/2012
- Bond information entered in RBDMS on: 8/31/2012
- Fee/State wells attached to bond in RBDMS on: 8/31/2012
- Injection Projects to new operator in RBDMS on: N/A
- Receipt of Acceptance of Drilling Procedures for APD/New on: N/A

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: LPM4021517
- Indian well(s) covered by Bond Number: N/A
- a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number LPM 8756586
- b. The **FORMER** operator has requested a release of liability from their bond on: N/A

LEASE INTEREST OWNER NOTIFICATION:

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

COMMENTS:

PHONE 303-220-7772
FAX 303-220-7772

J. C. THOMPSON OPERATOR, LLC
8400 E. Prentice Ave. – Suite 735
Greenwood Village, Colorado 80111

August 9, 2012

RECEIVED

AUG 14 2012

DIV. OF OIL, GAS & MINING

State of Utah
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Re: Operator Change
J.C. Thompson Operator, LLC to National Fuel Corporation

J.C. Thompson Operator, LLC, the operator of certain wells located in Grand County, Utah, requests that the designated operator of all wells be changed to National Fuel Corporation effective June 1, 2012. Accordingly, enclosed for approval is the Sundry Notice (submitted in triplicate) regarding the leases.

National Fuel Corporation is principal to its Statewide Utah Bond #LPM4021517 and the bond has been previously provided to the Salt Lake City office. The Resignation of Unit Operator and Designation of Successor Operator will also be provided accordingly.

Please advise if any additional information or documentation is required.

Sincerely,



Lynne Jansons
Land and Contract Management
National Fuel Corporation
303.996.6776 (office)
303.220.7773 (fax)
ljansons@national-fuel.com

enclosures

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: see attached list
2. NAME OF OPERATOR: NATIONAL FUEL CORPORATION <i>178060</i>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 8400 E Prentice Ave., Suite 7 Greenwood Village CO 80111		7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: (303) 220-7772		8. WELL NAME and NUMBER: see attached list
4. LOCATION OF WELL		9. API NUMBER:
FOOTAGES AT SURFACE:		10. FIELD AND POOL, OR WILDCAT:
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		

COUNTY: **Grand**

STATE: **UTAH**

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective June 1, 2012, National Fuel Corporation succeeded J.C. Thompson Operator, LLC as operator of all wells on the attached list and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. National Fuel Corporation is principal to the Statewide Utah Bond No. LPM4021517.

State: LPM 87565806

NAME (PLEASE PRINT) <u>Diane Thompson</u>	TITLE <u>President and Chief Operating Officer</u>
SIGNATURE <u><i>Diane Thompson</i></u>	DATE <u><i>July 30, 2012</i></u> <u><i>July 30, 2012</i></u>

(This space for State use only)

APPROVED

AUG 31 2012

RECEIVED

AUG 14 2012

(5/2000)

DIV. OIL GAS & M

(See Instructions on Reverse Side)

Rachael Medina
Engineer Tech

DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: ML-21613
1. TYPE OF WELL Gas Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: NATIONAL FUEL CORPORATION	7. UNIT or CA AGREEMENT NAME: HORSE POINT
3. ADDRESS OF OPERATOR: 8400 E Prentice Avenue Suite 735 , Greenwood Village, CO, 80111	8. WELL NAME and NUMBER: HORSE POINT U M-6
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1475 FSL 1110 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 32 Township: 16.0S Range: 24.0E Meridian: S	9. API NUMBER: 43019300130000
5. ADDRESS OF OPERATOR: 8400 E Prentice Avenue Suite 735 , Greenwood Village, CO, 80111	9. FIELD and POOL or WILDCAT: WESTWATER
6. PHONE NUMBER: 970 260-8128	COUNTY: GRAND
7. STATE: UTAH	STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 5/15/2016	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input checked="" type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This Sundry notice is being submitted to request approval of P&A operations for the Horse Point M-6. This well is no longer capable of producing in paying quantities. See procedure below. 1. Move in workover rig. 2. Remove wellhead and install BOP. 3. Pull 2 3/8" tbg. 4. Move in wireline. Set CIBP at 6050. Dakota perms 6093 to 6171. Dump bail 2 sks on CIBP. 5. Fill 4 1/2" csg with fresh water. Cut 4 1/2" 100' below 7" at 2614' and pull 4 1/2" out of hole. 6. Run in with 2 3/8" tbg to 2664'. Pump 44 sks of Class G cement inside 4 1/2" and 100' up into 7" csg. 7. Pull tbg. Tag cement to confirm depth inside 7". 8. Fill 7" with fresh water. Perforate 7" at 200'. 50' below 9 5/8" surface csg. 9. Circulate 72 sks down 7" and up through 7" X 9 5/8" annulus. 10. Cut off wellhead 3' below ground level. Install marker. 11. Remove all equipment and reclaim per DOGM instructions.

Approved by the Utah Division of Oil, Gas and Mining

Date: May 02, 2016

By: *Derek Duff*

Please Review Attached Conditions of Approval

NAME (PLEASE PRINT) Andrew Busch	PHONE NUMBER 970 260-8128	TITLE VP Operations
SIGNATURE N/A	DATE 3/15/2016	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43019300130000

- 1. Notify the Division at least 24 hours prior to conducting abandonment operations. Please call Dan Jarvis at 801-538-5338.**
- 2. Amend Plug #1: A minimum of 8 sx shall be spotted on the CIBP @ 6050' not 2 sx as proposed (R649-3-24-3.2).**
 - 3. All balanced plugs shall be tagged to ensure that they are at the depth specified.**
 - 4. All annuli shall be cemented from a minimum depth of 100' to the surface.**
- 5. Surface reclamation shall be done in accordance with R649-3-34 – Well Site Restoration.**
- 6. All requirements in the Oil and Gas Conservation General Rule R649-3-24 shall apply.**
- 7. If there are any changes to the procedure or the wellbore configuration, notify Dustin Doucet at 801-538-5281 (ofc) or 801-733-0983 (home) prior to continuing with the procedure.**
- 8. All other requirements for notice and reporting in the Oil and Gas Conservation General Rules shall apply.**

Wellbore Diagram

API Well No: 43-019-30013-00-00 Permit No: Well Name/No: HORSE POINT U M-6

Company Name: NATIONAL FUEL CORPORATION

Location: Sec: 32 T: 16S R: 24E Spot: NESE

Coordinates: X: 647552 Y: 4359150

Field Name: WESTWATER

County Name: GRAND

String Information

String	Bottom (ft sub)	Diameter (inches)	Weight (lb/ft)	Length (ft)	Capacity (cf/ft)
HOL1	150	12.25			
SURF	150	9.625	32		
HOL2	2514	8.75			4.524
II	2514	7	23		
HOL3	6266	6.125			10.960
PROD	6266	4.5	9.5		
		6 7/4" hole (108)			4.039
		12 1/4" x 9 5/8" (108)			2.062
		8 3/4" x 7" (108)			4.201
		9 5/8" x 7"			5.726

Cement Information

String	BOC (ft sub)	TOC (ft sub)	Class	Sacks
II	2514	2200	UK	50
PROD	6266	5400	UK	100
SURF	150	0	UK	54

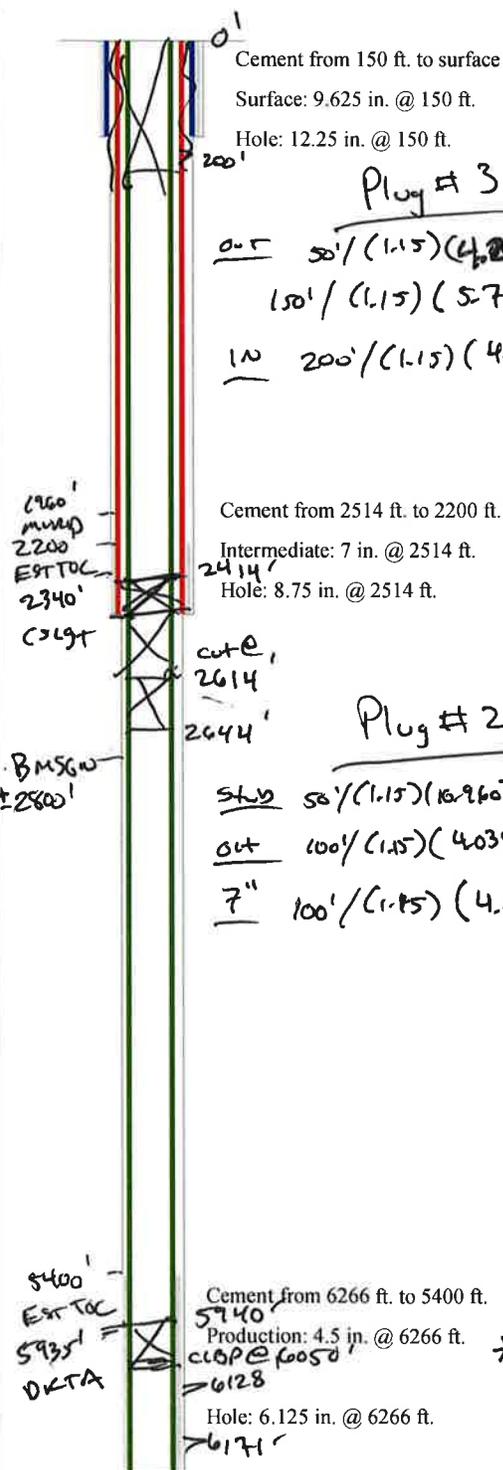
73.5x total
Propose 72.5x ✓
OK.

Perforation Information

Top (ft sub)	Bottom (ft sub)	Shts/Ft	No Shts	Dt Squeeze
6128	6171			

Formation Information

Formation	Depth
WSTC	0
MVRD	1960
CSLGT	2340
DKTA	5935
BMSGW	2800



Cement from 150 ft. to surface
Surface: 9.625 in. @ 150 ft.
Hole: 12.25 in. @ 150 ft.

Plug # 3

0-5 50' / (1.15) (4.201) = 11.5x
150' / (1.15) (5.726) = 23.5x
10 200' / (1.15) (4.524) = 39.5x

Cement from 2514 ft. to 2200 ft.
Intermediate: 7 in. @ 2514 ft.
Hole: 8.75 in. @ 2514 ft.

cut @ 2614'
2644'

Plug # 2

5400' -
EST TOC 5935' =
DKTA

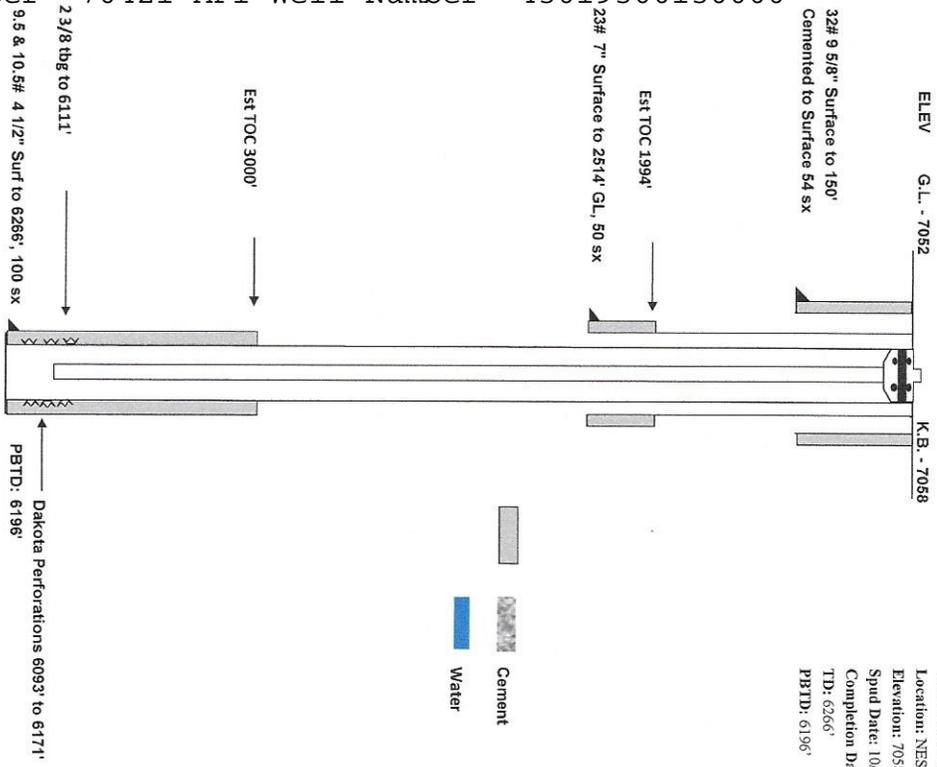
Cement from 6266 ft. to 5400 ft.
5400'
Production: 4.5 in. @ 6266 ft.
CLOS @ 6050'
6128
6171'

*** Plug # 1**

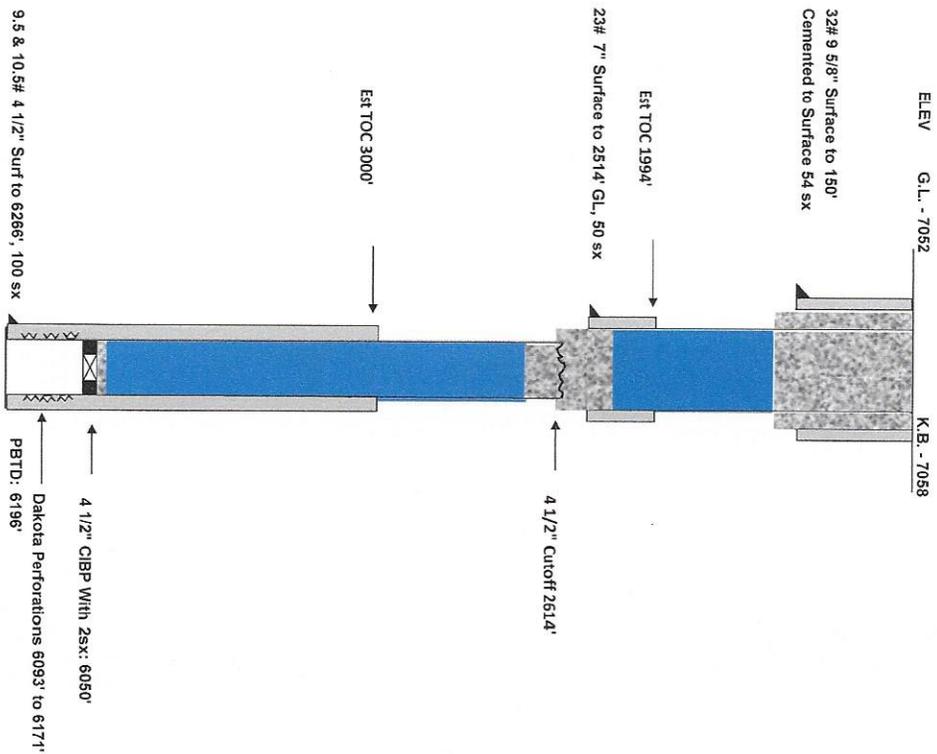
100' / (1.15) (10.960) = 8.5x min. reqd.
not 2.5x

TD: 6266 TVD: PBTD:

Current Well Bore Diagram 12/7/15



Post P&A Well Bore Diagram



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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2. NAME OF OPERATOR: NATIONAL FUEL CORPORATION		8. WELL NAME and NUMBER: HORSE POINT U M-6
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PHONE NUMBER: 970 260-8128		9. FIELD and POOL or WILDCAT: WESTWATER
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1475 FSL 1110 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 32 Township: 16.0S Range: 24.0E Meridian: S		COUNTY: GRAND
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/19/2016	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input checked="" type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

9/20/16 – Moved rig and cementing equipment to location. 9/21/16 – Moved remaining equipment to location. RU on well. Blew down well. ND wellhead. NU BOP. Shut in well. 9/25/16 – Blew down well. POOH with tbg. PU and RIH with 4 ½” CIBP on tbg and set at 6044’. Plug set witnessed by Mark Jones(Utah DOGM). Circulated fresh water down 2 3/8” and up 4 ½”. Circulated 7 bbls of oil in to rig tank. Clean water returns at end of circulating. 9/26/16 – Hole standing full of water. RU cementing equipment. Mixed and pumped 10 sacks of Class “G” cement down 2 3/8” tbg. Displaced with 21.4 bbls of fresh water. Allowed plug to balance. POOH with tbg. Cementing witnessed by Mark Jones(Utah DOGM). Dug out 4 ½” X 7” csg head. 10/4/16 – PU & RIH with 4 ½” csg cutter to 2614’. Engaged cutter. Rotated for 1 hour. Csg not cut. POOH with tbg and cutter and replaced cutting arms. RIH with redressed cutter. Cut csg at 2614’. POOH with tbg and cutter. Attempted to establish circulation down 4 ½” and up through 7”. Pumped 25 bbls of fresh water down 4 ½” with no sign of returns. 10/5/16 – Filled 4 ½” X 7” annulus with 4 bbls of fresh water. Pumped another 10 bbls of water down 4 ½”. Returns through 7” at surface. Circulated 3 bbls of oil and 45 bbls of drilling mud out of 7”. RD pump. Dug out 7” X 9 5/8” csg head. ND BOP and 4 ½” X 7” csg head. RU 4 ½” pulling tools. Pulled 4 ½” csg out of slips. Stripped on spool. Will lay down 4 ½” csg tomorrow. 10/6/16 – Hole standing full of water. POOH and laid down 81 joints of 4 ½” csg. 10/7/16 – RIH with 42 stands of 2 3/8” tbg and one mule shoe jt to 2666’. RU cementing equipment. Scheduled truck to haul fresh water to location and haul circulated returns to disposal. 10/10/16 – Moved 4 1/2” csg off location. Moved in trailer to lay down tbg on. Mixed and pumped 45

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
November 28, 2016**

Sundry Number: 76241 APT Well Number: 43019300130000
 sx of Class "G" cement down tbg. Displaced with 9.5 bbls of water. Pull returns through 7" during job. Cementing witnessed by Mark Jones(Utah DOGM). RD cementer. POOH and laid down 84 jts. RIH with 13 stands out of derrick. Pooh and laid down 26 jts. Will tag plug tomorrow morning. 10/11/16 – RIH with tbg. Tagged cement at 2404'. POOH and laid down tbg. Filled 7" and 7" X 9 5/8" annulus with fresh water. MIRU DLD Wireline. Perforated 7" csg at 200'. RD wireline. Established circulation down 7" and up through 9 5/8" csg. Mixed and pumped 72 sx of Class "G" cement down 7". Had returns throughout job, but no cement returns at surface. Tagging and cementing witnessed by Mark Jones(Utah DOGM). 10/12/16 – Lowered weighted tbg strap down 7" csg. Tagged cement at 39' from GL. Cut off wellhead 4' below GL. Lowered weighted strap down 7" X 9 5/8" annulus. Tagged at 19'. Mixed and pumped 13 sx. Filled 7" and 7" X 9 5/8" annulus. Installed surface marker. Tagging and cementing witnessed by Mark Jones(Utah DOGM). Released rig. 10/19/16 – L&L Roustabouts roughened location as directed by Mark Jones (Utah DOGM). Seeded reclamation area with mixture approved by Moab BLM on a neighboring location.

NAME (PLEASE PRINT) Andrew Busch	PHONE NUMBER 970 260-8128	TITLE VP Operations
SIGNATURE N/A	DATE 11/9/2016	

Horse Point M-6 Plug and Abandonment

Horse Point #M-6

NESE, Sec 32, Twn16S, Rng24E

Grand County, Utah

9/20/16 – Moved rig and cementing equipment to location.

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9/26/16 – Hole standing full of water. RU cementing equipment. Mixed and pumped 10 sacks of Class "G" cement down 2 3/8" tbg. Displaced with 21.4 bbls of fresh water. Allowed plug to balance. POOH with tbg. Cementing witnessed by Mark Jones(Utah DOGM). Dug out 4 ½" X 7" csg head.

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10/5/16 – Filled 4 ½" X 7" annulus with 4 bbls of fresh water. Pumped another 10 bbls of water down 4 ½". Returns through 7" at surface. Circulated 3 bbls of oil and 45 bbls of drilling mud out of 7". RD pump. Dug out 7" X 9 5/8" csg head. ND BOP and 4 ½" X 7" csg head. RU 4 ½" pulling tools. Pulled 4 ½" csg out of slips. Stripped on spool. Will lay down 4 ½" csg tomorrow.

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10/10/16 – Moved 4 1/2" csg off location. Moved in trailer to lay down tbg on. Mixed and pumped 45 sx of Class "G" cement down tbg. Displaced with 9.5 bbls of water. Full returns through 7" during job. Cementing witnessed by Mark Jones(Utah DOGM). RD cementer. POOH and laid down 84 jts. RIH with 13 stands out of derrick. Pooh and laid down 26 jts. Will tag plug tomorrow morning.

10/11/16 – RIH with tbg. Tagged cement at 2404'. POOH and laid down tbg. Filled 7" and 7" X 9 5/8" annulus with fresh water. MIRU DLD Wireline. Perforated 7" csg at 200'. RD wireline. Established circulation down 7" and up through 9 5/8" csg. Mixed and pumped 72 sx of Class "G" cement down 7". Had returns throughout job, but no cement returns at surface. Tagging and cementing witnessed by Mark Jones(Utah DOGM).

10/12/16 – Lowered weighted tbg strap down 7" csg. Tagged cement at 39' from GL. Cut off wellhead 4' below GL. Lowered weighted strap down 7" X 9 5/8" annulus. Tagged at 19'. Mixed and pumped 13 sx. Filled 7" and 7" X 9 5/8" annulus. Installed surface marker. Tagging and cementing witnessed by Mark Jones(Utah DOGM). Released rig.

10/19/16 – L&L Roustabouts roughened location as directed by Mark Jones (Utah DOGM). Seeded reclamation area with mixture approved by Moab BLM on a neighboring location.

Southwest Seed, Inc.
 13514 Road 29
 Dolores, CO 81323
 Phone: 970-565-8722

Customer: **NATIONAL FUEL CORP**
 Order #: **2016.0760**
 Date: **9/28/2016**

Lot #	Species	Variety	CL	OR	PURE	INERT	CROP	WEED	Rstr	Nox	Live	PLS	Test Date	Bulk LBS	PLS LBS	Pure %
2012.0397	CLIFFROSE	VNS		UT	92.56	7.35	0.02	0.07	NF	NF	86	79.60	06/27/16	2.51	2	4.78
2014.0195	INDIAN RICEGRASS	RIMROCK	C	WA	99.97	0.03	0.00	0.00	NF	NF	97	96.97	04/26/16	10.31	10	21.21
2014.1066	FOURWING SALT BUSH	SW NATIVE		NM	93.39	6.60	0.00	0.01	NF	NF	45	42.03	06/27/16	14.28	6	27.43
2015.0596	GALLETIA	VNS	C	CO	47.89	51.84	0.17	0.10	NF	NF	77	36.88	03/14/16	13.56	5	13.36
2015.0871	NEEDLE & THREAD GRASS	VNS	S	CO	97.01	2.72	0.05	0.22	NF	NF	88	85.37	12/17/15	5.86	5	11.69
2016.0489	GREEN EPHEDRA	VNS		UT	99.39	0.61	0.00	0.00	NF	NF	96	95.41	07/20/16	2.1	2	4.29
Pure: 82.75%	Inert: 17.14%	Crop: 0.05%	Weed: 0.06%	Total: 100.00%												
REMARK: TWO BAGS EACH BAG CONTAINS 24.3 BLK LBS (15 PLS LBS) TO SEED .5 ACRES													Grand Total	48.61	30.00	

NOTICE TO BUYER: EXCLUSION OF WARRANTY AND LIMITATION OF REMEDY. We warrant that the seed sold has been labeled as required in the State and Federal Seed Laws, and that it conforms to the label description within tolerances recognized by law. NO OTHER WARRANTY IS MADE, expressed or implied, INCLUDING without limitation, THE MERCHANTABILITY, THE PERFORMANCE OF THE CROP AS TO YIELD OR QUALITY, OR THE FITNESS FOR PARTICULAR PURPOSES. It is expressly agreed that the liability is limited to the amount of the purchase price of the seed. Seed not accepted on the above terms and conditions may be returned to the place of purchase in the unopened containers within 10 days. Under the Colorado Seed Act, adulteration is required as a prerequisite to a civil remedy. In addition, consumers, counterclaimants, or defendants against a seller of seed, information about that requirement may be obtained from the Colorado Commissioner of Agriculture.