

FILE NOTATIONS

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

Checked by Chief
Approval Letter 5-3-73
Disapproval Letter

COMPLETION DATA:

Date Well Completed 4-25-75

Location Inspected ..

OW..... WW..... TA.....

Bond released

GW..... OS..... PA.....

State or Fee Land

Signature

LOGS FILED

Driller's Log.....

Electric Logs (No.)

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

BHC Sonic GR..... Lat..... MI-L..... Sonic.....

CBLog..... CCLog..... Others.....

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS

5. Lease Designation and Serial No.

Fee

6. If Indian, Allottee or Tribe Name

7. Unit Agreement Name

8. Farm or Lease Name

Moore

9. Well No.

1

10. Field and Pool, or Wildcat

11. Sec., T., R., M., or Blk. and Survey or Area

NW SW NW 10-2N-5E

12. County or Parrish 13. State

Summit

Utah

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

Gas storage injection
Other & withdrawal

Single Zone

Multiple Zone

2. Name of Operator

Mountain Fuel Supply Company

3. Address of Operator

P. O. Box 1129, Rock Springs, Wyoming 82901

4. Location of Well (Report location clearly and in accordance with any State requirements.*)

At surface

1960' FNL, 20' FWL NW SW NW

At proposed prod. zone

14. Distance in miles and direction from nearest town or post office*

1/2 mile east of Coalville, Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any)

20'

16. No. of acres in lease

22.45

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

2400' ✓

20. Rotary or cable tools

Rotary

21. Elevations (Show whether DF, RT, GR, etc.)

GR 5671'

22. Approx. date work will start*

May 7, 1973

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
17-1/2	13-3/8	48	70'	101
12-1/4	9-5/8	32.3	700'	381
8-3/4	7	20	to be determined	

We would like to drill the subject well as an injection/withdrawal well to an estimated depth of 2400'; anticipated formation tops are as follows: Frontier at the surface, Longwall sandstone (I-2) at 2230'.

Mud will be adequate to contain formation fluids and blow out preventers will be checked daily. ✓

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 BW Craft Title Vice President, Gas Supply Operations Date May 1, 1973

(This space for Federal or State office use)

Permit No. 43-043-30005 Approval Date

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

PT
PMB

R. G. MYERS

INTEROFFICE COMMUNICATION

FROM R. G. Myers

Rock Springs, Wyoming

CITY

STATE

TO B. W. Croft

DATE April 27, 1973

SUBJECT Tentative Plan to Drill
Moore Well No. 1
Summit County, Utah

Attached for your information and files is a tentative plan to drill the above-captioned well. This plan was written in accordance with the Geologic Prognosis dated November 22, 1972.

RGM/gm

Attachment

- cc: J. T. Simon
- L. A. Hale (6)
- J. E. Adney
- Geology (2)
- D. E. Dallas (4)
- P. J. Radman
- F. F. Toole
- B. M. Steigleder
- U.S.G.S.
- State 
- Paul Zubatch
- P. E. Files (4)

From: T. M. Colson

Rock Springs, Wyoming

To: R. G. Myers

April 27, 1973

Tentative Plan to Drill
Moore Well No. 1
Summit County, Utah

This well will be drilled to total depth by _____ Drilling Company. One work order has been originated for the drilling and completion of the well, namely _____, Drill Moore Well No. 1, located in SW NW Sec. 10, T. 2 N., R. 5 E., Summit County, Utah. An 8-3/4-inch hole will be drilled to a depth of 2400 feet and 7-inch O.D. casing run. The well will be completed as an injection-withdrawal well in the L-2 zone of the Longwall sandstone. Surface elevation is at 5674 feet.

1. Drill 17-1/2-inch hole to approximately 100 feet KBM.
2. Run and cement approximately 90 feet of 13-3/8-inch O.D., 48-pound, H-40, 8 round thread, ST&C casing. The casing will be cemented with 120 sacks of regular Type "G" cement which represents theoretical requirements plus 100 percent excess cement for 13-3/8-inch O.D. casing in 17-1/2-inch hole with cement returned to surface. Cement will be treated with 564 pounds of Dowell D43A. Plan on leaving a 10-foot cement plug in the bottom of the casing after displacement is completed. Floating equipment will consist of a Baker guide shoe. The top and bottom of all casing collars will be spot welded in the field and the guide shoe will be spot welded to the shoe joint in the Rock Springs Machine Shop. The bottom of the conductor pipe should be landed in such a manner that the top of the 12-inch 3000 psi casing flange will be at ground level. A cellar three feet deep will be required. Prior to cementing, circulate 80 barrels of mud. Capacity of the 13-3/8-inch O.D., 32.3-pound casing is 58 barrels.
3. After a WOC time of 6 hours, remove the landing joint and wash off casing collar. Install a 12-inch 3000 psi companion flange tapped for 13-3/8-inch O.D., 8 round thread casing. Install adequate preventers and finish nipping

up. Pressure test casing and all rams to 1000 psi for 15 minutes. The internal pressure rating for 13-3/8-inch O.D., 48-pound, H-40 casing is 1730 psi.

4. Drill a 12-1/4-inch hole to a depth of 700 feet. Note: During the drilling of a shot hole near J. H. Wilde Well No. 1, a salt water flow was encountered at 280 feet. During the drilling of the surface hole at J. H. Wilde Well No. 1, 10.75 ppg mud was used which indicates water flows were encountered. The formation logs for the J. H. Wilde well indicated a water sand at 319 feet which flowed at a rate of 500 barrels per hour. The surface hole should be drilled with 11.5 ppg mud with lost circulation material to prevent water flows.
5. Run and cement approximately 700 feet of 9-5/8-inch O.D., 32.3-pound, H-40, 8 round thread, ST&C casing. The casing will be cemented with 381 sacks of regular Type "G" cement which represents theoretical requirements plus 100 percent excess cement for 9-5/8-inch O.D. casing in 12-1/4-inch hole with cement returned to surface. Cement will be treated with 5 per cent D43A and 1/4-pound floseal per sack of cement. Plan on leaving a 10-foot cement plug in the bottom of the casing after displacement is completed. Floating equipment will consist of a Baker guide shoe. The top and bottom of all casing collars will be spot welded in the field and the guide shoe will be spot welded to the shoe joint in the Rock Springs Machine Shop. The bottom of the surface casing should be landed in such a manner that the top of the 10-inch 3000 psi casing flange will be at ground level. A cellar three feet deep will be required. Prior to cementing, circulate 75 barrels of mud. Capacity of the 9-5/8-inch O.D., 32.3-pound casing is 55 barrels.

6. After a WOC time of 6 hours, remove the landing joint. Cut off the 13-3/8-inch O.D. casing so the casing flange can be installed. Wash off 9-5/8-inch collar. Install a NSCo. Type "B" 10-inch 3000 psi regular duty casing flange tapped for 9-5/8-inch O.D., 8 round thread casing. Install a 2-inch extra heavy nipple, 6-inches long, and a WKM Figure BL38 (2000 psi WOG, 4000 psi test) valve on one side outlet of the casing flange and a 2-inch extra heavy bull plug in the opposite side. Install a 10-inch 3000 psi double gate hydraulically operated blowout preventer with blind rams in the bottom and 4-1/2-inch rams in the top and finish nipping up. After a WOC time of 12 hours, pressure test surface casing, all preventer rams, and Kelly-cock to 1000 psi for 15 minutes using rig pump and drilling mud. The burst pressure rating for 9-5/8-inch O.D., 32.3-pound, H-40, 8 round thread, ST&C casing is 2270 psi.
7. Drill 8-3/4-inch hole to the total depth of 2400 feet or to such depth as the Geological Department may recommend. A Company Geologist will be on location to check cutting samples. 10 foot samples will be checked from bottom of surface casing to total depth. Mud weight will be increased to 13.5 ppg at 2000 feet. The mud will exert a hydrostatic pressure of 1562 psi at the top of the gas storage zone at 2230 feet. Calculated bottom hole pressure in J. H. Wilde Well No. 1 is 1336 psi. No drill stem tests will be run. Anticipated tops are as follows:

	<u>Approximate Depth (Feet KBM)</u>
Frontier	Surface
Longwall SS (L-2)	2230
Total Depth	2400

8. Run a dual induction laterolog, a BHC acoustilog with caliper and gamma ray, and a compensated density with caliper gamma ray log from total depth to the bottom of the surface pipe. A dipmeter will be run from total depth to a depth to be determined by the geologist on location.
9. Run an 8-3/4-inch bit and condition hole prior to running 7-inch O.D. casing. Pull and lay down drill pipe and drill collars.
10. Run 7-inch O.D. casing as outlined in Item I, General Information to a depth of 2400 feet. The bottom 500 feet of casing will be sand blasted and Ruff Cote applied. A Baker Type G float collar and guide shoe will be used as floating equipment. Cement casing with regular densified cement from 2400 feet to 2100 feet and 50-50 Pozmix cement from 2100 feet to 1000 feet. Precede cement with 500 gallons mud flush. Circulate 150 barrels drilling mud prior to beginning cementing operations. Capacity of the 7-inch O.D. casing is 97 barrels. Cement requirements will be based on actual hole size as determined by the caliper log. Rotate casing while circulating, mixing, and displacing cement. Displace cement with water. Bump plug with 2000 psi and hold for 15 minutes to pressure test casing. The minimum internal yield pressure for 7-inch O.D., 20-pound, K-55 casing is 3740 psi.
11. Immediately after cementing operations are completed, land the 7-inch O.D. casing with full weight of casing on slips and record indicator weight. Install a NSCo. 10-inch 3000 psi by 6-inch 3000 psi Type "B" tubing spool with WKM 2-inch 3000 psi wing valves. Pressure test seal assembly to 1500 psi for 5 minutes. The minimum collapse pressure for 7-inch O.D., 20-pound, K-55 casing is 2500 psi.
12. Release drilling rig.
13. Install deadmen anchors. Move in and rig up contract workover rig.

14. Install a 6-inch 5000 psi double gate preventer with blind rams on bottom and 3-1/2-inch tubing rams on top. After a WOC time of 72 hours, run a Baker roto-vert casing scraper dressed for 7-inch O.D., 20-pound casing on 3-1/2-inch O.D., 9.2-pound, J-55 seal lock tubing. Check plug back depth. Pull and lay down casing scraper.
15. Run a Dresser Atlas cement bond log and calibrated gamma ray neutron collar log from plugged back depth to surface.
16. After the above items have been evaluated, a tentative plan to complete the well will be finalized.

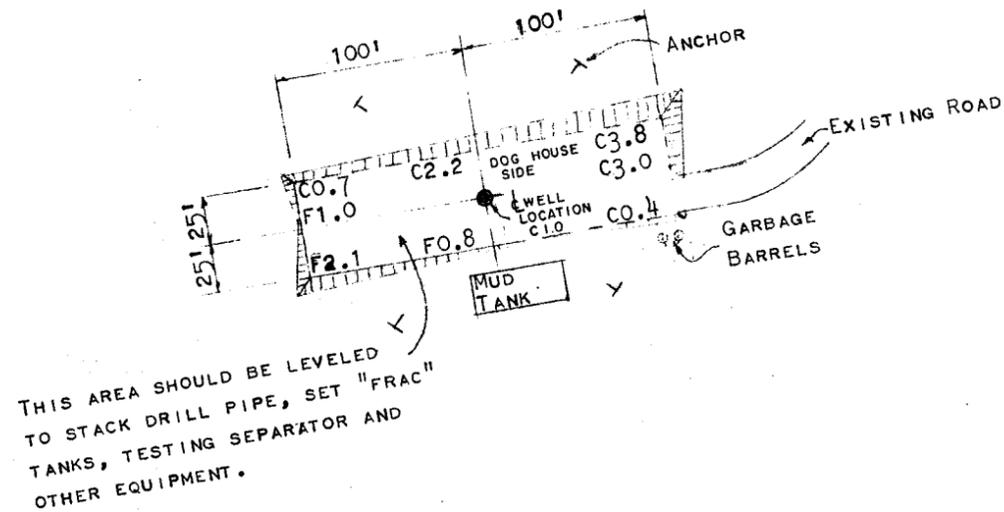
GENERAL INFORMATION

I. The following tubular goods have been assigned to the well.

<u>Description</u>	<u>Approximate Gross Measurement (feet)</u>	<u>Availability</u>
	<u>Conductor Pipe</u>	
13-3/8-inch O.D., 48-pound, H-40, 8 round thread, ST&C casing	120	To be purchased
	<u>Surface Casing</u>	
9-5/8-inch O.D., 32.30-pound, H-40, 8 round thread, ST&C casing	730	To be purchased
	<u>Production Casing</u>	
* 7-inch O.D., 20-pound, K-55, 8 round thread, ST&C casing	2,500	To be purchased
	<u>Production Tubing</u>	
3-1/2-inch O.D., 9.2-pound, J-55, seal lock tubing	2,500	To be purchased

* 500 feet will be sand blasted and Ruff Cote applied in the Rock Springs' yard.

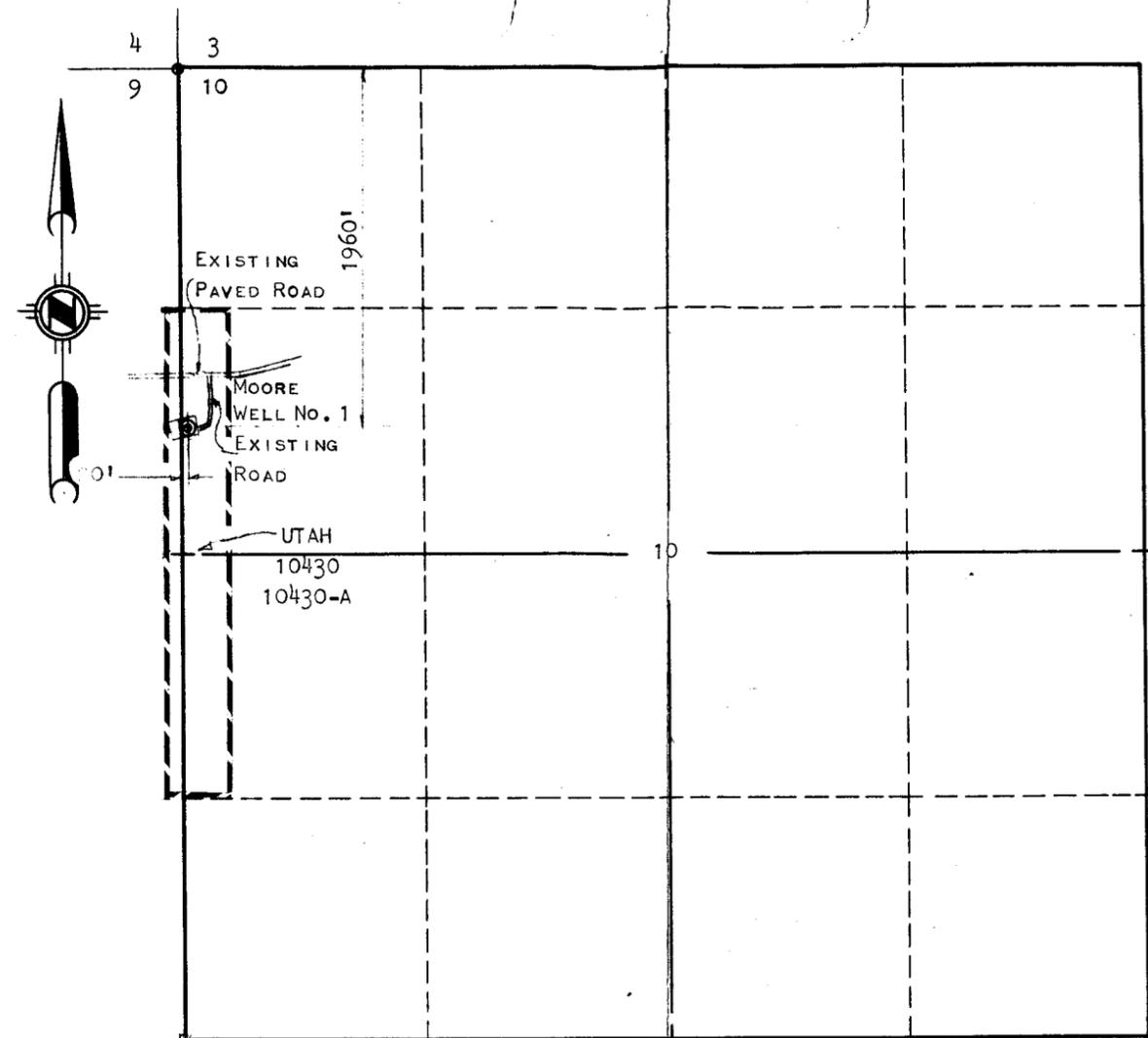
II. All ram type preventers will have hand wheels installed and operative at the time the preventers are installed.



- ENLARGED WELL SITE PLAN -
SCALE: 1"=100'

NOTE:

At sites where topsoil is present, same is to be removed and stored on doghouse side for restoration of the site when required.



- LOCATION PLAN -
SCALE: 1"=1000'

This is to certify that the above plat was prepared from field notes of actual surveys made under my supervision and that the same are true and correct to the best of my knowledge.

K. A. Loyd
Engineer
UTAH REGISTRATION No. 2708

DRILLING W.O.

LEGEND		ENGINEERING RECORD		REVISIONS				MOUNTAIN FUEL SUPPLY COMPANY ROCK SPRINGS, WYOMING		
⊙	WELL	SURVEYED BY	J. B. CARRICABURU 4/27/73	NO.	DESCRIPTION	DATE	BY	CERTIFIED WELL LOCATION AND WELL SITE PLAN MOORE WELL NO. 1		
⊕	STONE CORNER	REFERENCES	G.L.O. PLAT <input checked="" type="checkbox"/> U.S.G.S. QUAD. MAP <input type="checkbox"/>							
⊙	PIPE CORNER	LOCATION DATA								
		FIELD	COALVILLE GAS STORAGE							
		LOCATION	SW NW SEC. 10, T.2N., R.5E.							
		COUNTY	SUMMIT					DRAWN: 4/30/73 DGH	SCALE: AS NOTED	
		STATE	UTAH					CHECKED: <i>RJM</i> JBC	DRWG. NO. M-11102	
		WELL ELEVATION: 5674' (AS GRADED) ELEVATION BY SPIRIT LEVELS - BENCH MARK WILDE WELL NO. 1						APPROVED: KAL		

May 3, 1973

Mountain Fuel Supply Company
Box 1129
Rock Springs, Wyoming 82901

Re: Well No. Moore No. 1
(Gas Storage & Withdrawal)
Sec. 10, T. 2 N, R. 5 E,
Summit County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with the Order issued in Cause No. 148-1, dated March 14, 1973.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PAUL W. BURCHELL - Chief Petroleum Engineer
HOME: 277-2890
OFFICE: 328-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation relative to this request will be greatly appreciated.

The API number assigned to this well is 43-043-30005.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FREIGHT
DIRECTOR

CBF:sd

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Handwritten initials
PF

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.)

<p>1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Gas storage</p> <p>2. NAME OF OPERATOR Mountain Fuel Supply Company</p> <p>3. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming 82901</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1960' FNL, 20' FWL SW NW</p>		<p>5. LEASE DESIGNATION AND SERIAL NO. Fee</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME ---</p> <p>7. UNIT AGREEMENT NAME ---</p> <p>8. FARM OR LEASE NAME Moore</p> <p>9. WELL NO. 1</p> <p>10. FIELD AND POOL, OR WILDCAT</p> <p>11. SEC., T., S., M., OR BLK. AND SURVEY OR AREA SW NW 10-2N-5E</p>
<p>14. PERMIT NO.</p>	<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) GR 5671'</p>	<p>12. COUNTY OR PARISH Summit</p> <p>13. STATE Utah</p>

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Supplementary history</u> <input checked="" type="checkbox"/>	

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

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

Depth 452', drilling.
Spudded May 12, 1973, ran 13-3/8" surface casing.

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

SIGNED BW Craft TITLE Vice President, Gas Supply Operations DATE May 16, 1973

(This space for Federal or State office use)

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

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Gas Storage		5. LEASE DESIGNATION AND SERIAL NO. Fee
2. NAME OF OPERATOR Mountain Fuel Supply Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME -
3. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming 82901		7. UNIT AGREEMENT NAME -
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1960' FNL, 20' FWL SW NW		8. FARM OR LEASE NAME Moore
14. PERMIT NO.		9. WELL NO. 1
15. ELEVATIONS (Show whether DF, RT, GR, etc.) KB 5685' GR 5674'		10. FIELD AND POOL, OR WILDCAT
		11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA SW NW 10-2N-5E
		12. COUNTY OR PARISH 13. STATE Summit Utah

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Supplementary history</u>	<input checked="" type="checkbox"/>

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

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

Depth 1367', drilling.

Landed 91.73' net, 92.93' gross of 13-3/8" OD, 48#, H-40, 8rd thd, ST&C casing at 102.73' KBM and set with 160 sacks of cement.

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

SIGNED BW Craft TITLE Vice President, Gas Supply Operations DATE May 22, 1973

(This space for Federal or State office use)

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

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Gas Storage		5. LEASE DESIGNATION AND SERIAL NO. Fee
2. NAME OF OPERATOR Mountain Fuel Supply Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME ---
3. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming 82901		7. UNIT AGREEMENT NAME ---
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface		8. FARM OR LEASE NAME Moore
14. PERMIT NO.		9. WELL NO. 1
15. ELEVATIONS (Show whether DF, RT, GR, etc.) KB 5685' GR 5674'		10. FIELD AND POOL, OR WILDCAT
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
		12. COUNTY OR PARISH Summit
		13. STATE Utah

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Supplementary history</u>	<input checked="" type="checkbox"/>

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

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

TD 2591', waiting on completion tools.

Landed 987.47' net, 996.43' gross of 9-5/8"OD, 32.3#, H-40 ST&C casing at 998.47' KBM and set with 604 sacks of cement.

Landed 2577.00' net, 2599.85' gross of 7"OD, 20#, K-55, ST&C casing at 2588.00' KBM and set with 325 sacks of cement.
Rig released June 5, 1973.

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

SIGNED BW Craft TITLE Vice President, Gas Supply Operations DATE June 26, 1973

(This space for Federal or State office use)

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



MOUNTAIN FUEL SUPPLY COMPANY

180 EAST FIRST SOUTH • P. O. BOX 11368 • SALT LAKE CITY, UTAH 84139 PHONE 328-8315

January 22, 1974

State of Utah
Department of Natural Resources
Division of Oil and Gas Conservation
1588 West North Temple
Salt Lake City, UT 84116

Attention Mr. Cleon Feight

Gentlemen:

Re: Request for Well Name Changes
Coalville Gas Storage Area
Summit County, Utah

The Moore Well No. 1 located in Section 10 of Township 2 North, Range 5 East was deepened by Mountain Fuel, and the J. H. Wilde Well No. 1 in Section 9 of Township 2 North, Range 5 East was drilled by Mountain Fuel to evaluate the area for gas storage.

We hereby request that the Moore Well No. 1 name be changed to Coalville Well No. 1 and the J. H. Wilde Well No. 1 be changed to the Coalville Well No. 2.

These changes will be beneficial to us since it is anticipated that additional wells will be drilled in the evaluation of this Area, and if we are able to refer to the wells as No. 1, No. 2, No. 3, and so forth, it will eliminate a lot of confusion.

Please advise me if any further information is required, and your cooperation would be appreciated.

Very truly yours,

G. A. Peppinger
Chief Landman

GAP:sm

April 9, 1974

Mountain Fuel Supply Company
Box 1129
Rock Springs, Wyoming 82901

Re: Well No. Moore #1 (gas storage)
Sec. 10, T. 2 N, R. 5 E,
Summit County, Utah

Gentlemen:

This letter is to advise you that the "Well Completion or Recompletion Report and Log" for the above referred to well is due and has not yet been filed with this office.

Please complete the enclosed Form OGC-3, in duplicate, and forward them to this office at your earliest convenience.

Thank you for your prompt attention to the above.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

SCHEREE DeROSE
EXECUTIVE SECRETARY

:sd

OIL & GAS CONSERVATION COMMISSION

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.)

<p>1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Gas Storage Inj/Withdrawal</p>		<p>5. LEASE DESIGNATION AND SERIAL NO. Fee</p>
<p>2. NAME OF OPERATOR Mountain Fuel Supply Company</p>		<p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME -</p>
<p>3. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming 82901</p>		<p>7. UNIT AGREEMENT NAME -</p>
<p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1960' FNL, 20' FWL SW NW</p>		<p>8. FARM OR LEASE NAME Moore</p>
<p>14. PERMIT NO. API # 43-043-30005</p>		<p>9. WELL NO. 1</p>
<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) KB 5685' GR 5674'</p>		<p>10. FIELD AND POOL, OR WILDCAT Coalville Gas Storage</p>
<p>12. COUNTY OR PARISH Summit</p>		<p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SW NW 10-2N-5E</p>
<p>13. STATE Utah</p>		

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Supplementary history</u>	<input checked="" type="checkbox"/>

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

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

TD 2591', waiting on completion tools.

Well has not been perforated or completed, waiting on evaluation of other wells in storage project before preceding with completion plans. ✓

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

SIGNED BW Craft TITLE Vice President, Gas Supply Operations DATE Aug. 1, 1974

(This space for Federal or State office use)

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



MOUNTAIN FUEL SUPPLY COMPANY

180 EAST FIRST SOUTH • P. O. BOX 11368 • SALT LAKE CITY, UTAH 84139 PHONE 328-8315

February 26, 1975

The State of Utah
Department of Natural Resources
Division of Oil and Gas Conservation
1588 West North Temple
Salt Lake City, UT 84116

Attention Mr. Cleon Feight

Gentlemen:

Re: Request for Well Name Changes
Coalville Gas Storage Area
Summit County, Utah

On January 22, 1974, I requested that the names of two of the gas storage wells be changed in our Coalville Gas Storage Area. These changes were approved by your Division on January 23, 1974.

It has been brought to my attention that my request for these name changes was in error, and we hereby request that the J. H. Wilde Well No. 1 be changed to the Coalville Well No. 1 and that the Moore Well No. 1 be changed to the Coalville Well No. 2.

Please indicate your approval to these changes by indicating so on the duplicate copy of this letter and returning same to me. I apologize for any inconvenience this may have caused your Department.

Very truly yours,

G. A. Peppinger
Manager, Lands and Leasing

GAP:sm

Enclosure

APPROVED BY DIVISION OF
OIL & GAS CONSERVATION

DATE FEB 27 1975

BY

PS 2
Z

STATE OF UTAH
DIVISION OF OIL & GAS CONSERVATION
DEPARTMENT OF NATURAL RESOURCES

PLUGGING PROGRAM

NAME OF COMPANY Mountain Fuel Supply

WELL NAME Coalville water well (City) API NO: _____

Sec. _____ Township _____ Range _____ County Summit

Verbal Approval Given to Plug the Above Referred to Well in the Following Manner:

Total Depth: _____

Casing Program:

Formation Tops:

Plugs Set as Follows:

Cement to Surface, full hole -

Date: 2-28-75

Signed: D. Sherwin

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> Gas Storage Injection/Withdrawal		5. LEASE DESIGNATION AND SERIAL NO. Fee
2. NAME OF OPERATOR Mountain Fuel Supply Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME -
3. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming 82901		7. UNIT AGREEMENT NAME -
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1960' FNL, 20' FWL SW NW		8. FARM OR LEASE NAME Coalville (formerly
14. PERMIT NO. API # 43-043-30005		9. WELL NO. Moore Well 2 No. 1)
15. ELEVATIONS (Show whether DF, RT, GR, etc.) KB 5685' GR 5674'		10. FIELD AND POOL, OR WILDCAT Coalville Gas Storage
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SW NW 10-2N-5E
		12. COUNTY OR PARISH Summit 13. STATE Utah

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

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

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

TD 2591', well has not been perforated, waiting on completion tools.

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

SIGNED R. D. Myers TITLE General Manager, Gas Supply Operations DATE April 2, 1975

(This space for Federal or State office use)

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

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPPLICATE*
(Other instructions on reverse side)

PJ

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Gas Storage		5. LEASE DESIGNATION AND SERIAL NO. Fee
2. NAME OF OPERATOR Mountain Fuel Supply Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME —
3. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming 82901		7. UNIT AGREEMENT NAME —
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1960' FNL, 20' FWL SW NW		8. FARM OR LEASE NAME Coalville
14. PERMIT NO. API 43-043-30005		9. WELL NO. 2
15. ELEVATIONS (Show whether DF, RT, GR, etc.) KB 5685' GR 5674'		10. FIELD AND POOL, OR WILDCAT Coalville Gas Storage
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SW NW 10-2N-5E
		12. COUNTY OR PARISH Summit
		18. STATE Utah

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Supplementary history</u> <input checked="" type="checkbox"/>	

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

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

TD 2591', rig released July 25, 1975, well shut in.

Rigged up work over unit on July 23, 1975, perforated from 2370' to 2375' and from 2390' to 2484' with 2 jumbo jet shots per foot, set packer at 2325' KBM, landed 3 1/2" tubing at 2333.58' KBM, installed wellhead, retrieved blanking plug, well flowed 310 barrels of water to tank with very small amount of gas, flowed 44 barrels per minute, shut well in.
Final report.

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

SIGNED R. G. Myers TITLE General Manager, Gas Supply Operations DATE July 31, 1975

(This space for Federal or State office use)

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

(See other instructions on reverse side)

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

5. LEASE DESIGNATION AND SERIAL NO.

Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

-

7. UNIT AGREEMENT NAME

-

8. FARM OR LEASE NAME

Coalville

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

Coalville Gas Storage

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

SW NW 10-2N-5E

12. COUNTY OR PARISH
Summit

13. STATE
Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other Gas Storage

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

2. NAME OF OPERATOR
Mountain Fuel Supply Company

3. ADDRESS OF OPERATOR
P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 1960' FNL, 20' FWL SW NW
At top prod. interval reported below
At total depth

14. PERMIT NO. DATE ISSUED

API No.: 43-043-30005

15. DATE SPUNDED 5-12-73 16. DATE T.D. REACHED 6-4-73 17. DATE COMPL. (Ready to prod.) 7-25-75 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* KB 5685' GR 5674' 19. ELEV. CASINGHEAD -

20. TOTAL DEPTH, MD & TVD 2591 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY ROTARY TOOLS 0 - 2591 CABLE TOOLS -

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 2370-2375' and 2390-2484' Frontier (Longwall ss) 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN Densilog, Dual Induction Focused, BHC Acoustilog 27. WAS WELL CORED Yes

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8	48	102.73	17-1/2	160	0
9-5/8	32.3	998.47	12-1/4	604	0
7	20	2,588.00	8-3/4	325	0

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
3-1/2	2333.58	2325

31. PERFORATION RECORD (Interval, size and number)
2370-2375' and 2390-2484', 2 jumbo jet shots per foot

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

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

DATE OF TEST HOURS TESTED CHOKER SIZE PROD'N. FOR TEST PERIOD OIL—BBL. GAS—MCF. WATER—BBL. GAS-OIL RATIO
NETG 44 BPM

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

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

35. LIST OF ATTACHMENTS
Logs as above, Well Completion and Well Lithology to be sent at a later date.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED R. S. Myers TITLE General Manager, Gas Supply Operations DATE July 31, 1975

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.	GEOLOGIC MARKERS		
	TOP	BOTTOM		NAME	MEAS. DEPTH	TRUE VERT. DEPTH
				Log tops:		
				Frontier	0'	
				Aspen	2,498	
				Kelvin	2,516'	



CHEM LAB

WATER ANALYSIS EXCHANGE REPORT

MEMBER Mountain Fuel Supply
 OPERATOR Mountain Fuel Supply
 WELL NO. Unit Well No. 2
 FIELD Coalville
 COUNTY Summit
 STATE Utah

LAB NO. 18817 REPORT NO. _____
 LOCATION Sec. 10-2N-5E
 FORMATION Frontier L-2 zone
 INTERVAL 2370-2375 2390-2484
 SAMPLE FROM Separator (1-28-76)
 DATE February 9, 1976

REMARKS & CONCLUSIONS: _____

Cations			Anions		
	mg/1	meq/1		mg/1	meq/1
Sodium	1720	74.81	Sulfate	6	0.12
Potassium	24	0.61	Chloride	2110	59.50
Lithium			Carbonate	0	
Calcium	75	3.74	Bicarbonate	1342	22.01
Magnesium	30	2.47	Hydroxide		
Iron			Hydrogen sulfide		
Total Cations		81.63	Total Anions		81.63

Total dissolved solids, mg/1 4626
 NaCl equivalent, mg/1 4351
 Observed pH 7.2

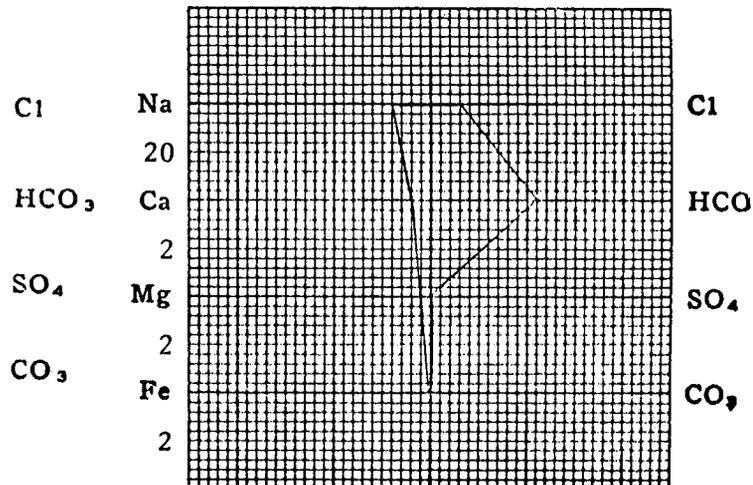
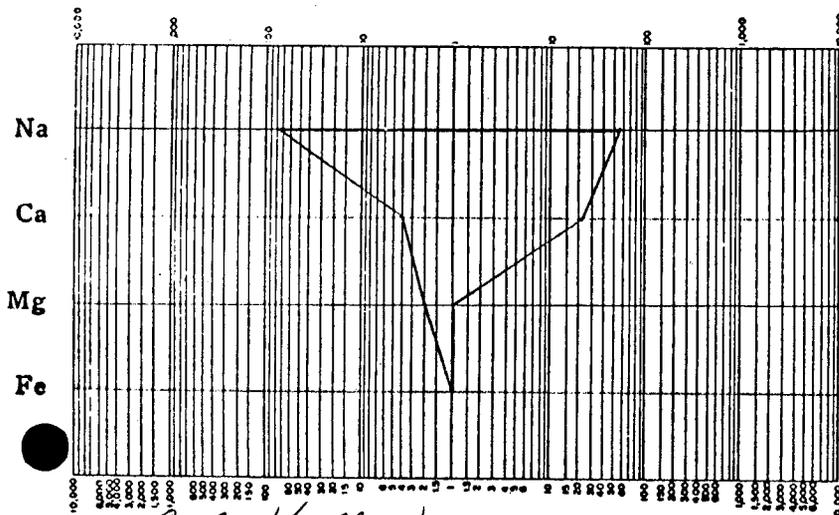
Specific resistance @ 68° F.:
 Observed 1.30 ohm-meters
 Calculated 1.45 ohm-meters

WATER ANALYSIS PATTERNS

MEQ per unit

LOGARITHMIC

STANDARD



cc: E.R. Keller

(Na value in above graphs includes Na, K, and Li)
 NOTE: Mg/1=Milligrams per liter. Meq/1=Milligram equivalents per liter
 Sodium chloride equivalent=by Dunlap & Hawthorne calculation from components



CHEM LAB

WATER ANALYSIS EXCHANGE REPORT

MEMBER Mountain Fuel Supply Co. LAB NO. 17641 REPORT NO. _____
 OPERATOR Mountain Fuel Supply Co. LOCATION Sec. 10-2N-5E
 WELL NO. No. 2 FORMATION L-1 Zone
 FIELD Coalville INTERVAL 2370-2484
 COUNTY Summit SAMPLE FROM Separator (September 7, 1975)
 STATE Utah DATE October 2, 1975

REMARKS & CONCLUSIONS: _____

Cations			Anions		
	mg/l	meq/l		mg/l	meq/l
Sodium	1643	71.49	Sulfate	18	0.37
Potassium	1	0.03	Chloride	1820	51.32
Lithium			Carbonate	-	
Calcium	71	3.54	Bicarbonate	1525	25.01
Magnesium	20	1.64	Hydroxide		
Iron			Hydrogen sulfide		
Total Cations		76.70	Total Anions		76.70

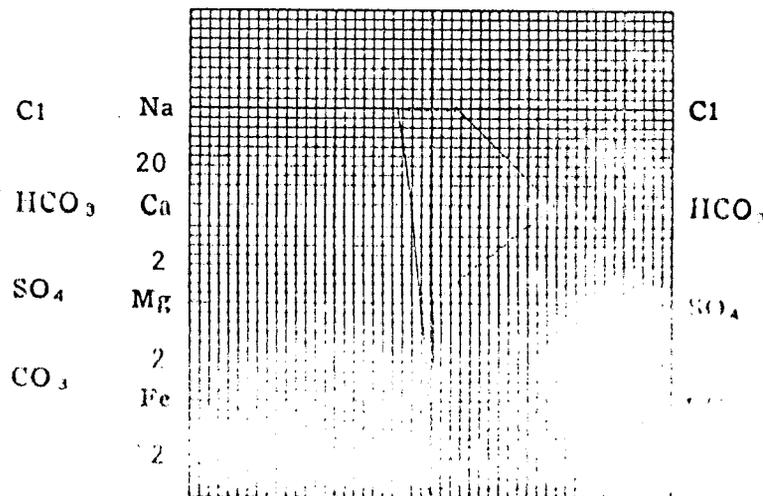
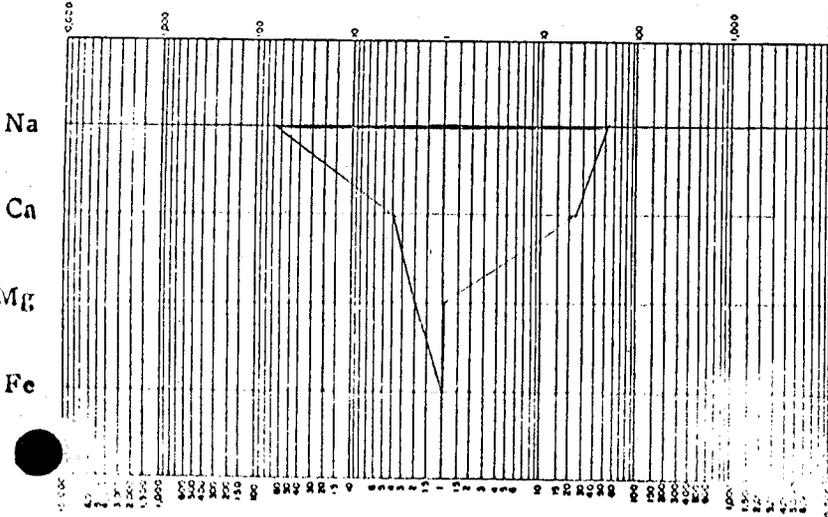
Total dissolved solids, mg/l 4324 Specific resistance @ 68° F.:
 NaCl equivalent, mg/l 3992 Observed 1.40 ohm-meters
 Observed pH 7.6 Calculated 1.60 ohm-meters

WATER ANALYSIS PATTERNS

MEQ per unit

LOGARITHMIC

STANDARD



(Na value in above graphs includes Na, K, and Li)
 NOTE: Mg/l=Milligrams per liter. Meq/l=Milligram equivalents per liter
 Sodium chloride equivalent=by Dunlap & Hawthorne calculation from components



CHEM LAB

WATER ANALYSIS EXCHANGE REPORT

Coalville #2

MEMBER Mountain Fuel Supply Company LAB NO. 16881-1 REPORT NO. _____
 OPERATOR Mountain Fuel Supply Company LOCATION Sec. 10-2N-5E
 WELL NO. Water well FORMATION _____
 FIELD Coalville Gas Storage Area INTERVAL _____
 COUNTY Summit SAMPLE FROM Water well sample
 STATE Utah DATE July 23, 1975

REMARKS & CONCLUSIONS: Clear water.

Cations			Anions		
	mg/l	meq/l		mg/l	meq/l
Sodium	39	1.71	Sulfate	26	0.54
Potassium	2	0.05	Chloride	36	1.02
Lithium			Carbonate	-	
Calcium	104	5.19	Bicarbonate	464	7.61
Magnesium	27	2.22	Hydroxide		
Iron	absent		Hydrogen sulfide		
Total Cations		9.17	Total Anions		9.17

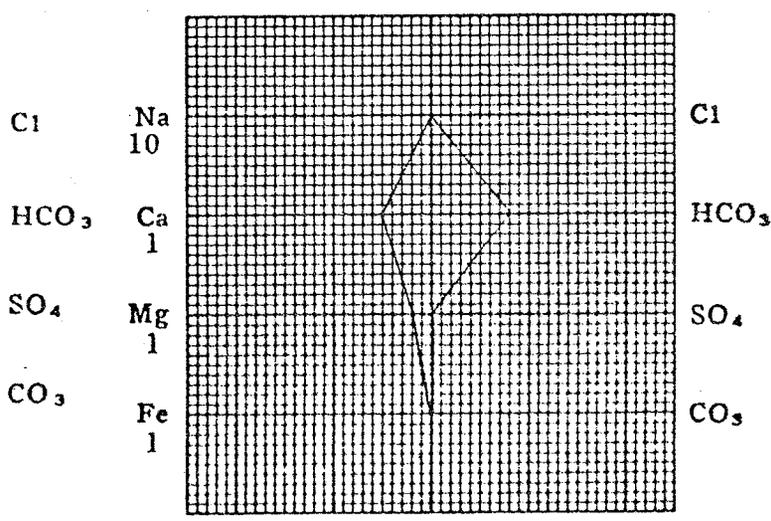
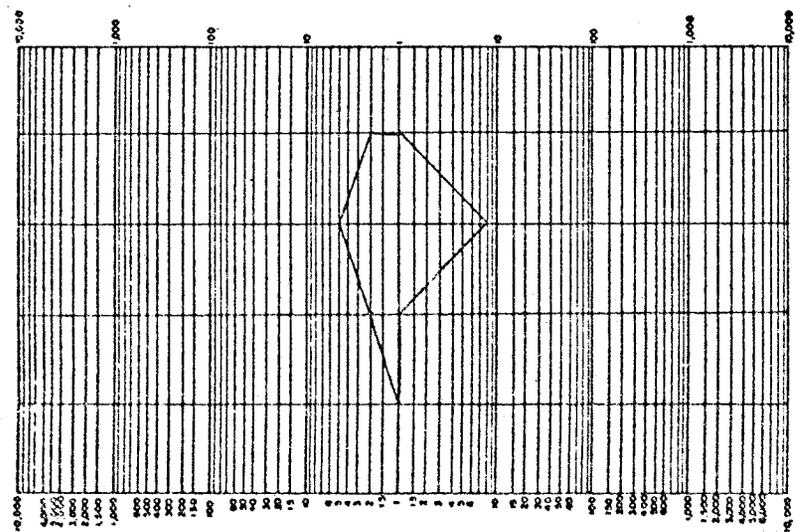
Total dissolved solids, mg/l 463 Specific resistance @ 68° F.:
 NaCl equivalent, mg/l 368 Observed 13.50 ohm-meters
 Observed pH 7.3 Calculated 13.50 ohm-meters

WATER ANALYSIS PATTERNS

MEQ per unit

LOGARITHMIC

STANDARD



(Na value in above graphs includes Na, K, and Li)
 NOTE: Mg/l=Milligrams per liter. Meq/l=Milligram equivalents per liter
 Sodium chloride equivalent=by Dunlap & Hawthorne calculation from components

P2
7

4

INTEROFFICE COMMUNICATION

FROM T. M. Colson

Rock Springs, Wyoming
CITY STATE

TO R. G. Myers

DATE March 25, 1975

SUBJECT Tentative Plan to Complete
Coalville Well No. 2
Coalville Gas Storage Field

Attached for your information and files is a tentative plan to complete the above-captioned well.

TMC/gm

Attachment

- cc: J. T. Simon
- B. W. Croft
- E. R. Keller (6)
- R. P. Work
- A. K. Zuehlsdorff
- Geology (2)
- D. E. Dallas (2)
- G. C. Nelson (2)
- C. F. Rosene
- F. F. Toole
- E. A. Farmer
- U.S.G.S.
- State *Handwritten mark*
- B. M. Steigleder
- P. E. Files (4)

From: C. R. Owen

Rock Springs, Wyoming

To: T. M. Colson

March 21, 1975

Tentative Plan to Complete
Coalville Well No. 2
Coalville Gas Storage Field

Present status of the well is as follows:

- a. 9-5/8-inch O.D., 32.3-pound, H-40, 8 round thread, ST&C casing landed at 998.47 feet KBM.
- b. 7-inch O.D., 20-pound, K-55, 8 round thread, ST&C casing landed at 2588.00 feet KBM.
- c. A 10-inch 3000 psi by 6-inch 3000 psi tubing spool was installed and pressure tested to 1500 psi for 5 minutes. The upper portion of the wellhead was installed.

A tentative plan to complete the well follows:

NOTE: KB is 11.00 feet above ground level.

1. Move in and rig up a contract workover rig. A mud pump and tank will be required.
2. Install a 6-inch 3000 psi double gate hydraulically operated blowout preventer with 3-1/2-inch O.D. rams in top gate and blind rams in bottom gate.
3. Pick up a 3-1/2-inch O.D. shop-built tubing shoe and approximately 2550 feet of 3-1/2-inch O.D., 9.2-pound, J-55, EUE tubing and check plug back total depth.
4. Rig up a Halliburton pump truck and pressure test casing and tubing rams to 2000 psi for 15 minutes. The minimum internal yield for 7-inch O.D., 20-pound, K-55 casing is 3740 psi. The wellhead has a working pressure of 3000 psi with a 6000 psi test pressure. Circulate drip oil from plug back total depth to clean up any water left in the wellbore.
5. Pull tubing out of hole and stand in derrick. Rig up Tuboscope and run a Vertilog casing inspection log from plug back total depth to surface.

6. Rig up a Dresser Atlas lubricator and prepare to perforate the following zone with two holes per foot Jumbo Jet shots.

2370 feet to 2375 feet KB
2390 feet to 2484 feet KB

Measurements for the above perforations should be taken from the Dresser Atlas cement bond log dated June 5, 1973.

7. Rig up Dresser Atlas and run the Baker Model F-1 production packer with millout extension, F nipple, and F no-go nipple on bottom. Set packer at about 2330 feet or 40 feet above the perforations. The retrievable tubing plug will be installed in the F nipple before running packer.
8. Run 3-1/2-inch O.D., 9.2-pound, J-55, EUE tubing as follows:
One NSCo. H-1 tubing hanger tapped 3-1/2-inch O.D., 8 round, EUE.
Necessary 3-1/2-inch O.D. pup joints to space out tubing.
Approximately 2310 feet 3-1/2-inch O.D., 9.2-pound, J-55, EUE tubing.
One Baker sliding sleeve assembly in open position.
Baker locator seal assembly with 6 feet of seals.
Land tubing in hanger with 10,000 psi compression.
9. Install upper portion of wellhead.
10. Run Marshall wireline and retrieve Baker tubing plug.
11. Release workover rig.

Schematic - Not drawn to scale.

Drilled by MFSCO 6/73 w/ Rotary tools

Present Status Drawing
 Coalville Well No. 2 (formerly Moore Well #1)
 Sec. 10, T2N, R5E
 Summit County, Utah

KB elev. 5685.0'

11.0'

GL elev. 5674.0'

13 3/8" OD Surface Casing

Net

1 - 12" 3000 psi casing head (Removed)	2.37
3 - joints 13 3/8" OD, 18#, H-40, 8rd, ST&C casing	88.11
1 - Baker guide shoe	1.25
	<u>91.73</u>

The above casing landed at 102.73' KB or 11.00' below KB, the top of the 12" casg flange is at GL. Cemented w/ 120 sx req. cement w/ 5% Dowell D43A, had full returns throughout. Cement outside 13 3/8" OD casing w/ 40 sx req. w/ 1" pipe.

13 3/8" OD Casing landed at 102.73' KBM

9 5/8" OD Intermediate Casing

1 - 10" 3000 psi type B casing flange	1.62
32 - joints 9 5/8" OD, 32.3#, H-40, 8rd ST&C Casing	984.63
1 - Baker guide shoe	1.22
	<u>987.47</u>

Above casing landed at 998.47' KB or 11.00' below KB. The top of the casing flange is at GL. Cemented with 55# sx of req. class G cement treated with D43A and 1/4" floeal. Returns intermittent, full when plug down. Cement top at 126', cement top w/ 50 sx class A cement through 1" pipe.

9 5/8" OD Casing landed at 998.47' KBM

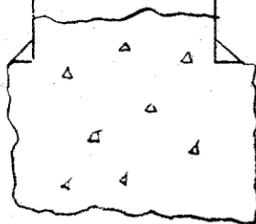
Cnt top behind 7" OD casing at 2000' KB

7" OD production Casing

1 - pc. 7" OD, 20#, K-55, 8rd thd, ST&C Casing	19.33
59 joints 7" OD, 20# K-55, 8rd thd, ST&C Casing	1850.53
22 joints 7" OD, 20# K-55, 8rd thd, ST&C Casing ruff coated	674.63
1 Baker differential fill up collar	1.75
1 joint 7" OD, 20#, K-55, 8rd thd, ST&C Casing ruff coated	29.76
1 Baker guide shoe	1.00
	<u>2517.00</u>

Above casing landed at 2588.00' KBM or 11.0' below KB, in a NSCO 10" 3000 psi type B casg flange with full indicator weight of 62,000#. Cemented w/ 225 sx 50-50 pozmix followed by 100 sx req. densified cnt. Full returns through out. Install NSCO 10" 3000 psi by 6" 3000 psi. tbg spool, pressure tested seals to 1500 psi for 5 min. Held OK.

7" OD casing 2588' KB



TD 2591' KBM

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		5. LEASE DESIGNATION AND SERIAL NUMBER:
OIL WELL <input type="checkbox"/>	GAS WELL <input type="checkbox"/>	Fee
OTHER <u>Gas Storage/Inject. Withdrawal</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		N/A
2. NAME OF OPERATOR:		7. UNIT or CA AGREEMENT NAME:
Questar Pipeline Company		Coalville Gas Storage
3. ADDRESS OF OPERATOR:		8. WELL NAME and NUMBER:
P.O. Box 45360	CITY SLC STATE UT ZIP 84145-0360	Coalville 2
PHONE NUMBER:		9. API NUMBER:
(801) 324-5555		4304330005
4. LOCATION OF WELL		10. FIELD AND POOL, OR WILDCAT:
FOOTAGES AT SURFACE: 1960' FNL, 20' FWL		Coalville Gas Storage
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SW NE 10 2N 5E SLM		COUNTY: Summit
		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 (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"/> 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"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<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 checked="" type="checkbox"/> OTHER: <u>Name Change</u>
	<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.

Purpose is to inform of the change in name on the subject leases from Mountain Fuel Supply Company to Questar Pipeline Company.

Effective 3/7/1988

	Approved:	
	Property	
NAME (PLEASE PRINT) <u>R. J. Zobell</u>	Property <u>[Signature]</u>	TITLE <u>Manager, Engineering & Project Management</u>
SIGNATURE <u>[Signature]</u>	Engineer <u>[Signature]</u>	DATE _____
	Legal <u>[Signature]</u>	
	V.P.	

(This space for State use only)

RECEIVED
JAN 13 2004

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH
2. CDW
3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

X Operator Name Change

Merger

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

3/7/1988

FROM: (Old Operator): N0680-Mountain Fuel Supply Company 180 E 100 S Salt Lake City, UT 84139 Phone: 1-(801) 534-5267	TO: (New Operator): N7560-Questar Pipeline Company PO Box 11450 Salt Lake City, UT 84147 Phone: 1-(801) 530-2019
--	--

CA No.

Unit:

WELL(S)								
NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
COALVILLE GAS STORAGE 1	09	020N	050E	4304310691	99990	Fee	GS	A
COALVILLE GAS STORAGE 2	10	020N	050E	4304330005	99990	Fee	GS	A
COALVILLE GAS STORAGE 3	10	020N	050E	4304330007	99990	Fee	GS	A
COALVILLE GAS STORAGE 4	10	020N	050E	4304330009	99990	Fee	GS	A
COALVILLE GAS STORAGE 5	10	020N	050E	4304330011	99990	Fee	GS	A
COALVILLE GAS STORAGE 6	10	020N	050E	4304330020	99990	Fee	GS	A
COALVILLE GAS STORAGE 7	10	020N	050E	4304330021	99990	Fee	GS	A
CHALK CREEK GOVT 4	06	020N	060E	4304305003	99990	Federal	GS	A
OHIO GOVT WELL 1 CHALK CREEK	06	020N	060E	4304305004	99990	Federal	GS	A
TEXOTA UTAH FED L 1	06	020N	060E	4304305005	99990	Federal	GS	A
CHALK CREEK GOVT 2	06	020N	060E	4304305006	99990	Federal	GS	A
CHALK CREEK GOVT 3	06	020N	060E	4304305007	99990	Federal	GS	A
CHALK CREEK GOVT 1	06	020N	060E	4304305008	99990	Federal	GS	A
CHALK CREEK GOVT 5	06	020N	060E	4304305009	99990	Federal	GS	A
CHALK CREEK GOVT 6	06	020N	060E	4304305018	99990	Federal	GS	A

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 1/13/2004
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 1/13/2004
3. The new company was checked on the Department of Commerce, Division of Corporations Database on: 1/14/2004
4. Is the new operator registered in the State of Utah: YES Business Number: 649172-0142
5. If **NO**, the operator was contacted on: _____

6. (R649-9-2)Waste Management Plan has been received on:

IN PLACE

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: 3/9/1989

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: 1/29/2004

2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 1/29/2004

3. Bond information entered in RBDMS on: 1/29/2004

4. Fee wells attached to bond in RBDMS on: 1/29/2004

5. Injection Projects to new operator in RBDMS on: n/a

STATE WELL(S) BOND VERIFICATION:

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

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: 965002976

INDIAN WELL(S) BOND VERIFICATION:

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

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 965003033

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: 1/29/2004

COMMENTS:

NEW ENTITY NUMBERS ASSIGNED FEBRUARY 2004

ACCT	OPERATOR NAME	API NUM.	Sec	Twnshp	Rng	WELL NAME	ENTITY	EFF DATE	REASON
N7560	Questar Pipeline Co	4304310691	09	020N	050E	Coalville Gas Storage 1	99990 to 14038	2/10/2004	Coalville Gas Storage
N7560	Questar Pipeline Co	4304330005	10	020N	050E	Coalville Gas Storage 2	99990 to 14038	2/10/2004	Coalville Gas Storage
N7560	Questar Pipeline Co	4304330007	10	020N	050E	Coalville Gas Storage 3	99990 to 14038	2/10/2004	Coalville Gas Storage
N7560	Questar Pipeline Co	4304330009	10	020N	050E	Coalville Gas Storage 4	99990 to 14038	2/10/2004	Coalville Gas Storage
N7560	Questar Pipeline Co	4304330011	10	020N	050E	Coalville Gas Storage 5	99990 to 14038	2/10/2004	Coalville Gas Storage
N7560	Questar Pipeline Co	4304330020	10	020N	050E	Coalville Gas Storage 6	99990 to 14038	2/10/2004	Coalville Gas Storage
N7560	Questar Pipeline Co	4304330021	10	020N	050E	Coalville Gas Storage 7	99990 to 14038	2/10/2004	Coalville Gas Storage
N7560	Questar Pipeline Co	4304330192	10	020N	050E	Coalville Gas Storage 8	99990 to 14038	2/10/2004	Coalville Gas Storage
N7560	Questar Pipeline Co	4304330193	10	020N	050E	Coalville Gas Storage 9	99990 to 14038	2/10/2004	Coalville Gas Storage
N7560	Questar Pipeline Co	4304330244	10	020N	050E	Coalville Gas Storage 10	99990 to 14038	2/10/2004	Coalville Gas Storage
N7560	Questar Pipeline Co	4304330249	09	020N	050E	Coalville Gas Storage 12	99990 to 14038	2/10/2004	Coalville Gas Storage

Note to file: These entity numbers
were changed to compliment the
operator correction from 3/7/98

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: FEE
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Gas Storage Well	8. WELL NAME and NUMBER: COALVILLE GAS STORAGE 2
2. NAME OF OPERATOR: QUESTAR PIPELINE COMPANY	9. API NUMBER: 43043300050000
3. ADDRESS OF OPERATOR: P.O.Box 45360, Salt Lake city, UT, 84145	PHONE NUMBER: 801 324-5061 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1960 FNL 0020 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 10 Township: 02.0N Range: 05.0E Meridian: S	9. FIELD and POOL or WILDCAT: COALVILLE GAS STORAGE
	COUNTY: SUMMIT
	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: 6/1/2016	<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.

Questar Pipeline Company is filing this Notice of Intent to Plug and Abandon Coalville 2. Attached is the proposed plugging procedure as well as the current and proposed wellbore diagrams. The location will be reclaimed at a later date.

**Approved by the
Utah Division of
Oil, Gas and Mining**

Date: March 23, 2016
 By: 

Please Review Attached Conditions of Approval

NAME (PLEASE PRINT) Chris B. Balling	PHONE NUMBER 801 324-3619	TITLE Property Agent - ROW
SIGNATURE N/A	DATE 3/17/2016	



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 43043300050000

- 1. Notify the Division at least 24 hours prior to conducting abandonment operations. Please call Dan Jarvis at 801-538-5338.**
- 2. All balanced plugs shall be tagged to ensure they are at the depths specified in the procedure.**
 - 3. All annuli shall be cemented from a minimum depth of 100' to the surface.**
 - 4. Surface reclamation shall be done in accordance with R649-3-34 – Well Site Restoration.**
 - 5. All requirements in the Oil and Gas Conservation General Rule R649-3-24 shall apply.**
- 6. 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.**
- 7. All other requirements for notice and reporting in the Oil and Gas Conservation General Rules shall apply.**

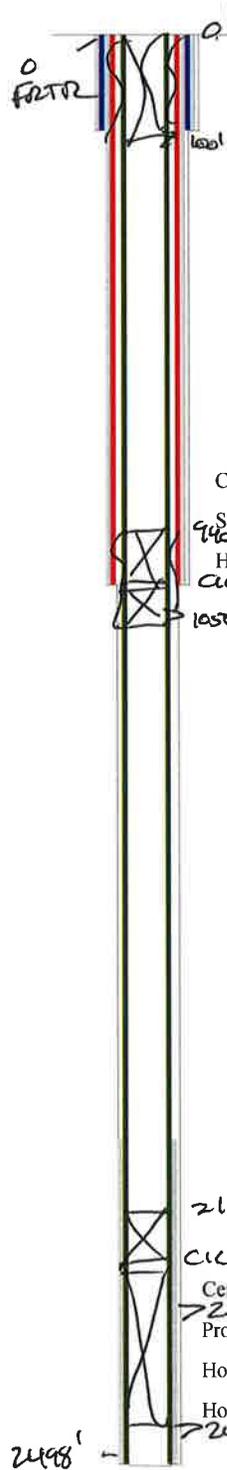
Wellbore Diagram

API Well No: 43-043-30005-00-00 Permit No: Well Name/No: COALVILLE GAS STORAGE 2
 Company Name: QUESTAR PIPELINE COMPANY
 Location: Sec: 10 T: 2N R: 5E Spot: SWNW
 Coordinates: X: 468173 Y: 4530321
 Field Name: COALVILLE GAS STORAGE
 County Name: SUMMIT

String Information

String	Bottom (ft sub)	Diameter (inches)	Weight (lb/ft)	Length (ft)	Capacity (g/cf)
HOL1	103	17.5			
COND	103	13.325	48		
HOL2	998	12.25			
SURF	998	9.625	32.3		
HOL3	2591	8.75			
PROD	2588	7	20		

Handwritten notes:
 8 3/4" x 7" (108) → 4.201
 9 5/8" x 7" → 5.726



Cement from 103 ft. to surface
 Conductor: 13.325 in. @ 103 ft.
 Hole: 17.5 in. @ 103 ft.
Plug # 3

$$\frac{IN}{OUT} \frac{100'}{(1.15)}(4.399) = 202X$$

$$\frac{100'}{(1.15)}(5.726) = 153X$$

$$\frac{355X}{\text{}} \text{ propose } 502X \checkmark \text{ OK.}$$

Cement Information

String	BOC (ft sub)	TOC (ft sub)	Class	Sacks
COND	103	0	UK	160
PROD	2588	2000	UK	325
SURF	998	0	UK	604

Cement from 998 ft. to surface
 Surface: 9.625 in. @ 998 ft.
 Hole: 12.25 in. @ 998 ft.
 CIRC @ 1000'

Plug # 2

$$\text{Below } \frac{1450'}{(1.15)}(4.399) = 105X$$

$$\text{out } \frac{62'}{(1.15)}(4.201) = 115X$$

$$\frac{75X}{(1.15)}(5.726) = 46'$$
 TOC @ 950' ✓

$$\text{Above } (120X)(1.15)(4.399) = 60'$$
 TOC @ 940'

Perforation Information

Top (ft sub)	Bottom (ft sub)	Shts/Ft	No Shts	Dt Squeeze
2370	2484			

Formation Information

Formation	Depth
FRTR	0
ASPEN	2498
KELVN	2516

Plug # 1
 CIRC @ 2310' Below $\frac{502X}{(1.15)}(4.399) = 253'$ max
 Cement from 2588 ft. to 2000 ft.
 Production: 7 in. @ 2588 ft. Above $\frac{405X}{(1.15)}(4.399) = 202'$
 Hole: Unknown
 Hole: 8.75 in. @ 2591 ft.
 TOC @ 2110'

2498' ASPEN TD: 2591 TVD: PBD:



Questar Pipeline Company
333 South State Street
P.O. Box 45360
Salt Lake City, UT 84145
Tel (801) 324-3160
Fax (801) 324-5606

Coalville Gas Storage 2

API 43-043-30005

Plugging Procedure

1. Test / install dead men anchors.
2. MIRU slickline. Set FB tank and run line to same f/ WH for tubing bleed off. RIH w/ 2.75" GR to locate the Baker "R" nipple w/ 2.697 No-Go ID. POOH and MU 2.75" blanking plug. RIH and set plug in "R" nipple (~2346.97') POOH. Hang back slickline. HU and bleed off tubing to ensure plug set to FB tank. RD slickline.
3. MIRU a contract workover rig w/ pipe racks, mud pump, rig tank, and 1 x 400 bbl upright. Fill the upright with fresh water. Move in and set one 200 bbl cement returns tank. Lay return lines from flow back and rig tanks to the wellhead. Bleed off any remaining well pressures.
4. HU, fill tubing and casing annulus with fresh water taking note of volumes to fill. With annuls open to tank pressure test tubing and blanking plug to 1000#. Bleed off pressure f/ tubing.
5. RU wireline contractor to perforate the 3-1/2" tubing in the bottom joint above the "Sperry Sun" pressure bomb assy. with 6 shots (1/4" EH). POOH w/ WL. HU to tubing and establish circulation down tubing taking returns up casing annulus. Tubing vol. ~ 20 bbl. Casing annulus vol. 66.5 bbls. RD WL after circulation has been established. Note: Annulus fluid may be a diesel base fluid.
6. ND production tree and NU 7-1/16", 5M hydraulically operated double gate BOP with stripper head equipped w/ 3-1/2" pipe rams in the top gate and blind rams in the bottom gate. Function-test both the blind and pipe rams. Hook up pump line to BOPE.
7. Install pup into hanger & PU and un-land tubing and sting out of packer w/ seal assy.
8. Break out and LD hanger, 1 jt of EUE 8rd tubing, 2 tubing pups, B x P - XO, 2 jts of seal-lock tubing, B x P - XO and 2 more EUE tubing pups.
 - Note: There is a capillary line clamped to 3-1/2" tubing from surface to Sperry Sun pressure bomb. Spool line onto spool mounted in derrick during POOH. Clamps are thought to be stainless bands holding cross collar protectors at couplings. 73 total.
9. POOH SB 37 stands of 3-1/2" EUE 8rd tubing. LD bottom single jt and Sperry pressure bomb and the Baker seal assy. Keep hole full for pipe displacement during trip out.
10. If returns on circulation were clean. NU 7-1/6 x 3-1/2" EUE 8rd companion flange to top of BOP. RU slickline and retrieve blanking plug from "R" nipple. RD slickline.
11. MIRU WL contractor with pressure control and lubricator. NU 7-1/16" WL flange. RIH w/ 6.250" GR/JB. Locate top of permanent packer @ ~2325'. POOH, LD GR/JB. MU WL set CICR for 7" 20# casing. RIH and set CICR ~ 5' above Baker permanent packer top (~ 2320'). Bleed off pressure from casing while POOH. RD WL.
12. Take delivery of 120' of 3-1/2" EUE rental tubing. MU slick cement stinger for CICR.
13. TIH to near top of CICR ~ 2310'. HU and circulate hole volume w/ fresh water. Pressure test casing and CICR to 1500 psi to ensure integrity. MU tubing pups w/ safety valve and tubing

swivel. Close safety valve string into CICR. (Bottom hole psi ~1250# – Hydrostatic water column ~ 1000#). Re-test annulus to 500# to ensure CICR seal and tubing integrity for 10 minutes.

14. Open safety valve on tubing to pump line. Establish injection rate thru CICR. Monitor annulus pressure during injection test.
15. RU cementing services.

Cement squeeze#1

16. Mix and pump 90 sks (15.8 ppg slurry / 1.15 yield) and squeeze 50 sks (10.24 bbls) below CICR displacing w/ 12 bbls of water. With 40 sks (~8 bbls) left in tubing, sting out and displace w/ ~6 more bbls of water to balance cement to leave a ~198' cement plug f/ 2,320' up to ~2,122' (after tubing pull out) inside the 7" casing.
17. POOH LD space out pups and 7 jts to ~2100'.
18. RU cementers and reverse out w/ 25 bbls fresh water.

9.0# POZ SPACER #1 (2100' up to 1,050').

19. Mix and pump a 9.0# balanced Poz-Gel spacer to place same from 2,100' up to 1,050' inside 7" casing after tubing pull out. ~43 bbls (Assume 9.94 yield)
20. POOH LD tubing to ~ 1,000'. POOH SB remainder of tubing in derrick.
21. RU WL contractor NU WL flange. MU PU 3-3/8" casing perf gun dressed w/ 4 spf 90 deg. phased. RIH and perforate 7" casing @ 1,050' (52' below Intermediate casing shoe) POOH RD WL.
22. MU a 7" MS CICR to tubing. TIH, and set MS CICR @ ~1,000' KBM.

Cement squeeze #2 @ 1050' (across Inter. casing shoe)

23. RU cementers. Establish injection rate and possible returns up 9-5/8" x 7" annulus w/ 50 bbls fresh water.
24. Mix and pump 40 sks cement (15.8 ppg / 1.15 yield). Squeeze 28 sks (5.7 bbls) below CICR, sting out & leave 12 sks (2.5 bbls) above CICR (61').
25. POOH LD 3 joints of tubing to ~ 910'.
26. HU and reverse out f/ ~910' w/ 12 bbls fresh water.

9.0# POZ SPACER #2 (910' to surface).

27. Mix and pump a 9.0# balanced Poz-Gel spacer to place same from 910' to 75' inside 7" casing after tubing pull out. ~37 bbls (Assume 9.94 yield) POOH LD all of the tubing. Tubing displacement ~3 bbls.
28. RU WL contractor. MU & RIH w/ 3-3/8" casing perf gun dressed 4 spf 90 deg. phased and perforate the 7" casing @ 100'. POOH RD WL.
29. Close the blind rams. With fresh water establish circulation by pumping down 7" casing and returning up 9-5/8" x 7" annulus. ~7 bbls hole volume.

Surface cement plug.

30. With circulation established mix and pump 50 sks of 15.8 ppg cement surface to surface down 7" production casing and returning up the 9-5/8" x 7" annulus to surface for good cement returns.
31. ND BOPE and wash out same.

32. RDMO WOR and associated equipment.
33. Excavate from out around WH (cement was placed between surface and intermediate casing strings w/ 1-1/4" tubing as per 1973 cement / casing reports)
34. Cut off and remove the WH 4' below GL. Top out w/ cement inside 7" casing and all casing annuli as needed.
35. Install sub surface regulation abandonment marker plate and obtain GPS coordinates for location. Back fill over marker.
36. Remove dead man anchors by unthreading same from anchor spade 8' below GL.



Daily Operations Report

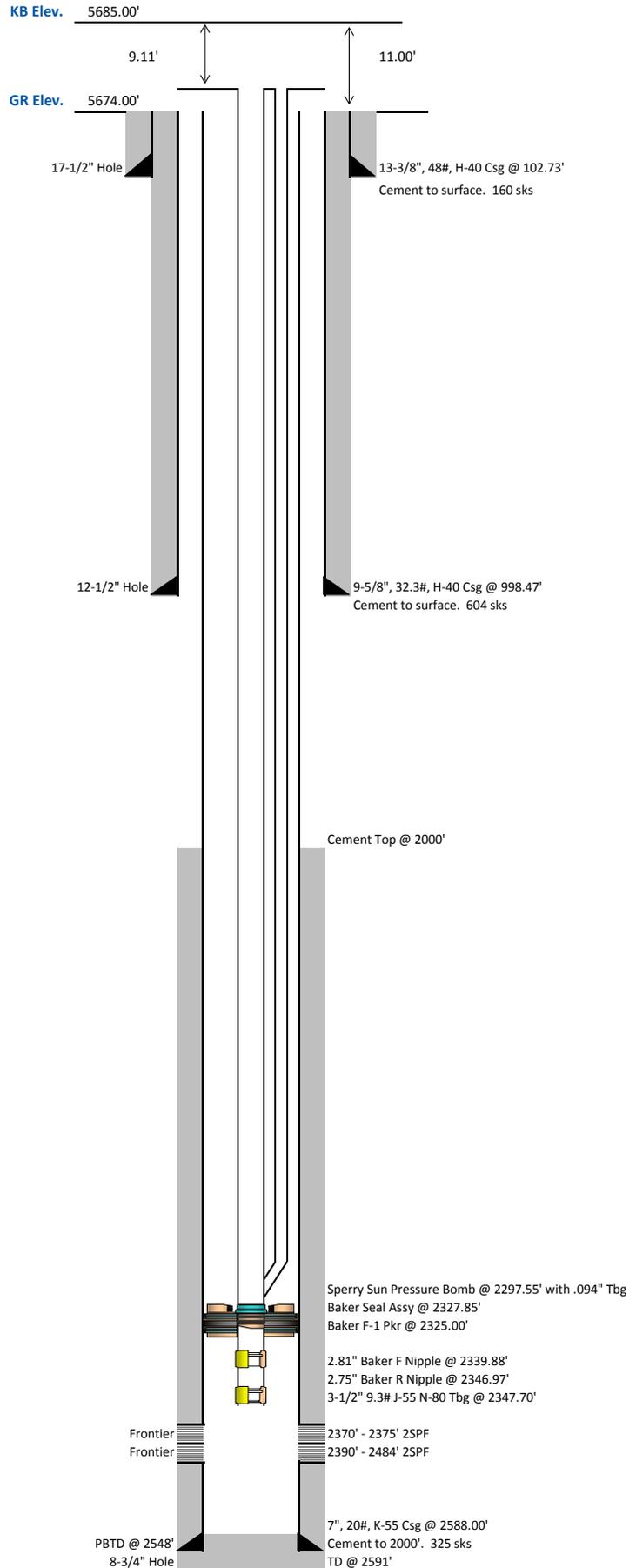
Wellbore Diagram

Well Name:	Coalville Gas Storage 2
County, State	Summit, UT
Legal Description:	SW NW 10-2N-5E
API:	43-043-30005
SHL:	1960' FNL, 20' FWL
Updated By:	Jeff Bluemel
Date Updated:	3/8/2016
Spud Date:	5/12/1973
TD Date:	6/4/1973
Well TD:	2,591
Orientation:	Vertical
Plug Back MD:	2,548
Bridge Plug MD:	
Injecting Frac Jobs:	1

Latitude	40.92339
Longitude	-111.378

As Of Workover	6/25/1983
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All measurements are in KB
 unless otherwise specified.



Daily Operations Report

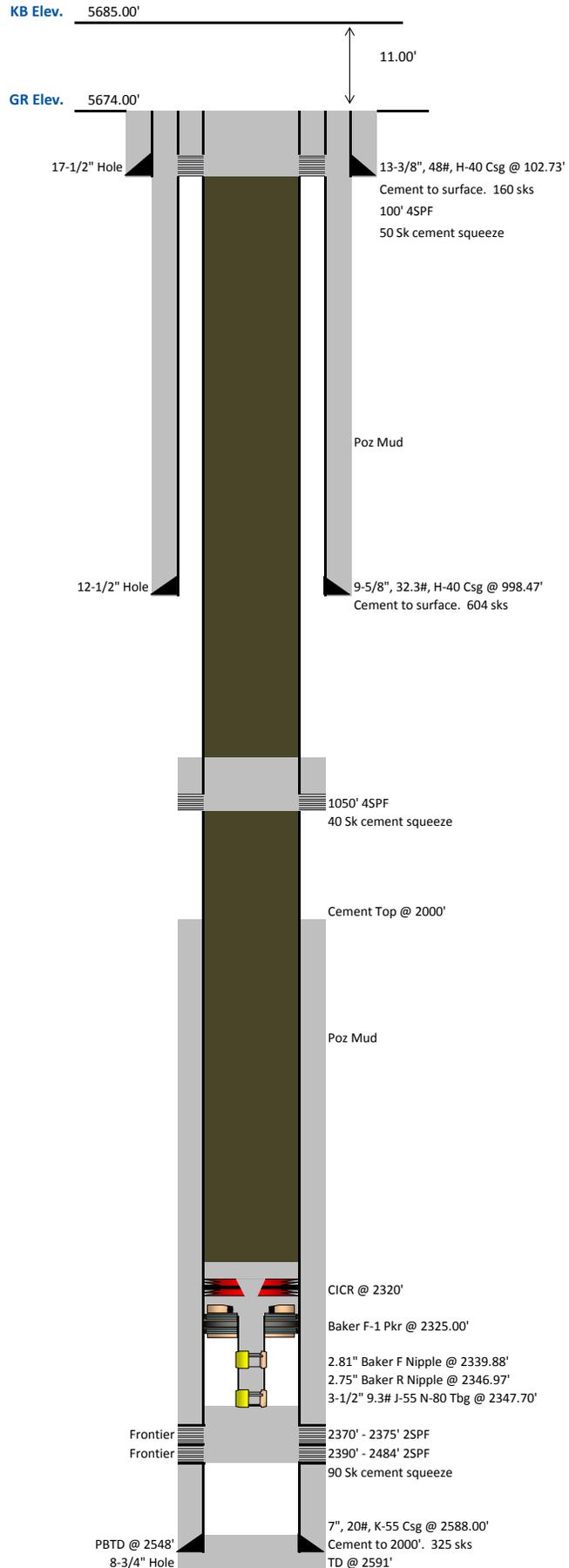
Wellbore Diagram

Well Name:	Coalville Gas Storage 2
County, State	Summit, UT
Legal Description:	SW NW 10-2N-5E
API:	43-043-30005
SHL:	1960' FNL, 20' FWL
Updated By:	Jeff Bluemel
Date Updated:	3/10/2016
Spud Date:	5/12/1973
TD Date:	6/4/1973
Well TD:	2,591
Orientation:	Vertical
Plug Back MD:	Surface
Bridge Plug MD:	
Injecting Frac Jobs:	None

Latitude	40.92339
Longitude	-111.378

As Of P&A	Pending
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All measurements are in KB unless otherwise specified.



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: FEE
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Gas Storage Well	8. WELL NAME and NUMBER: COALVILLE GAS STORAGE 2
2. NAME OF OPERATOR: QUESTAR PIPELINE COMPANY	9. API NUMBER: 43043300050000
3. ADDRESS OF OPERATOR: P.O.Box 45360 , Salt Lake city , UT, 84145	9. FIELD and POOL or WILDCAT: COALVILLE GAS STORAGE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1960 FNL 0020 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 10 Township: 02.0N Range: 05.0E Meridian: S	COUNTY: SUMMIT
	STATE: UTAH

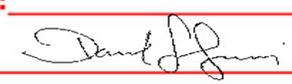
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 6/15/2016	<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 type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input checked="" 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.

Questar Pipeline Company will reclaim property around Coalville Well #2 after the well head and facilities have been plugged and removed from the site. The reclamation will be done by grading and leveling the property and reseeding. This reclamation will be done under the direction and approval of the current property owner.

Approved by the
April 05, 2016
Oil, Gas and Mining

Date: _____
 By: 

NAME (PLEASE PRINT) Chris B. Balling	PHONE NUMBER 801 324-3619	TITLE Property Agent - ROW
SIGNATURE N/A	DATE 3/17/2016	

Daily Operations Report

Plug & Abandon



Operation	Well Name	Report Date	Casing Size	Tubing Size	Foreman	Day			
Workover Repair	Coalville Gas Storage 2	5/13/2016	7" 20# K-55	3-1/2" 9.3# J-55	S.Colvin / J. Abraham	4			
x Plug & Abandon	SICP	SITP	9-5/8" x 7"	FTP	Formation	PBTD	TD	W.O. AFE \$	AFE
	0	0	40		Frontier	2,548	2,591	109,550	55139

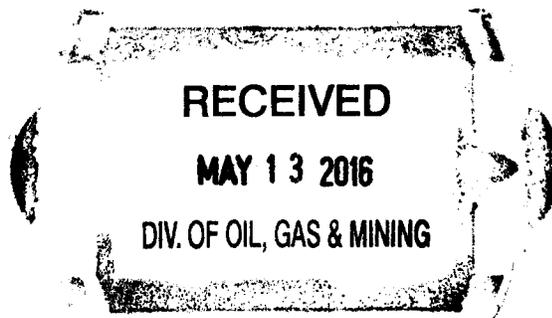
New Perforations	Existing Perforations
43-043-30005	2370' - 2375' 2SPF, 2390' - 2484' 2SPF

From To Detail of Operations in Sequence and Remarks:

From	To	Time	Remarks
			Rig Number: Key 6052
6:30	7:00	0.5	Check pressures, started equip., PJSM
7:00	7:45	0.8	MU PU 5.75" GR w/ JB. RIH w/ GR. Correlate to CBL. RIH to packer top @ 2331' WLM. POOH LD GR/JB
7:45	8:30	0.8	MU Baker CICR. RIH correlated on depth. RI and set down on CICR @ 2331' PU 5' and set the CICR @ 2326' WLM
8:30	9:30	1.0	POOH, bleed off casing. RD WL. NU stripper head.
9:30	11:30	2.0	MU cement stinger to single. TIH w/ 38 stands. Install stripper rubber. PU MU 2 joints. PU MU 8' & 10' tubing pups. Sting into CICR @ 2327' kbm.
11:30	12:30	1.0	Sting out and HU to circulate. Reversed 25 bbls. RU cementers to squeeze manifold. Sting into CICR.
12:30	12:45	0.3	PJSM with cementers
12:45	13:00	0.3	Establish injection rate @ 1, 2 & 3 bpm w/ 10 bbls of fresh water. Pumping into formation @ 0 psi. Mix and pump 90 sks of "Neat G" cement (18.5 bbls @ 15.9 ppg slurry) Displaced cement @ 0 psi w/ 12 bbls of water. Stung out of CICR. Displaced remaining 8 bbls of cement w/ 6 more bbls of water to leave a 200' balanced cement plug above retainer inside 7" production casing up to 2126'. Break off cementers. Tubing balanced. POOH LD 7 joints of tubing. EOT @ 2102' KBM.
13:00	14:15	1.3	HU and reverse circulate w/ 25 bbls. 1/2 bbl light cement at btms up. Mix and pump 43 bbls of 9.0# poz-gel (24 sks) and displace same w/ 8 bbls water to place and leave a balanced spacer f/ 2102' up to 1050' inside 7" after tubing pull out. POOH LD 38 jts (45 total out), pull stripper rubber. SB 17 stands LD stinger.
14:15	17:15	3.0	ND stripper head, NU flange for WL, RU WL. RIH with casing perf gun dressed 4 spf 0 deg phased to 1050' kbm WL and perforate the 7" casing. POOH RD WL. MU a Baker MSCICR. TIH w/ 17 stands. HU and rev circ. w 5 bbls to fill hole. Set the CICR @ 1000' kbm. RU cementers. Pressure test casing and CICR to 500# for 15 min as per state request, tested good no losses. Bleed off pressure. HU return line to the 9-5/8" x 7" annulus - open to tank pressure dropped f/ 40# to 0#. Establish injection rate thru CICR w/ 8 bbls water - 2 bpm @ 800# w/ circulation up the 9-5/8" by 7" inter. annulus. Mix and pump 40 sks "Neat G" cement (8.1 bbls 15.8 ppg). Displace w/ 6 bbls of water. Sting out of CICR w/ 800# with the 7" by 3-1/2" annulus closed in. SI 9-5/8" by 7". During break off the return line from the 9-5/8" by 7" annulus it was found that the 9-5/8" by 7" return line to manifold was plugged with mud. Set manifold to pump thru return line and clear same. Bleed off at manifold. HU return line and open same on the 7" x 3-1/2" casing tubing annulus. Pump 2 more bbls water displacement down tubing to leave 62' balanced cement plug inside 7" above CICR. POOH LD 3 joints. HU to tubing and reverse out f/ 914' kbm. Returned 1/2 bbl cement at btms up. Swap manifold. Mix 19 sks of 9.0# Poz-gel 34 bbls surface to surface.
17:15	17:45	0.5	Break off cementers. POOH LD remaining 31 joints. RU WL RIH w/ casing perf gun dressed 4 spf 0 deg phased and perforate the casing @ 100'.
17:45	19:30	1.8	POOH, LD gun and RD WL. Set manifold. Pump down the 9-5/8" x 7" attempting to take returns to surface up 7" casing. Pump 10 bbls water w/ no indication of returns? SD and swap manifold to pump down 7" and take returns up 9-5/8" x 7". Pressure up to 2500# w/ no psi loss. 9-5/8" x 7" annulus flowing to FB tank @ +/- 1-1/2 bpm with no loss in pressure on 7" ?? Depressure 7" and pressure back up to 2500# with same result. 7" is apparently not perforated I SI 9-5/8" x 7" annulus. Discuss options w/ engineering. SISW, SDFD. Pressure 1 hr after SI on 9-5/8" x 7" was 150#
			Lisha Cordova w/ Utah DOGM. Witnessed all plugging operations today.

Total Hours: 13.0

Daily Cost: \$ 16,112 Total Cost: \$ 38,722



Daily Operations Report

Plug & Abandon

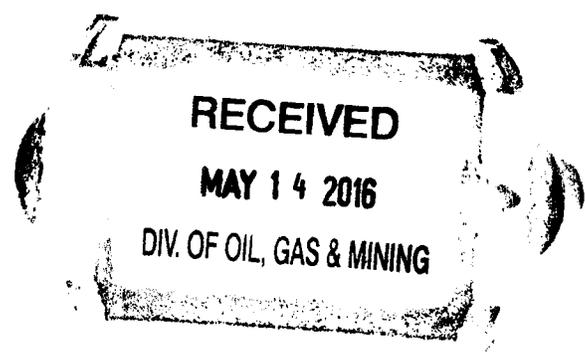


Operation	Well Name	Report Date	Casing Size	Tubing Size	Foreman	Day			
Workover Repair	Coalville Gas Storage 2	5/14/2016	7" 20# K-55	3-1/2" 9.3# J-55	S.Colvin	5			
x Plug & Abandon	SICP	SITP	9-5/8" x 7"	FTP	Formation	PBTD	TD	W.O. AFE \$	AFE
	0	0	125		Frontier	2,548	2,591	109,550	55139

New Perforations	Existing Perforations
43-043-30005	2370' - 2375' 2SPF, 2390' - 2484' 2SPF

From	To	Detail of Operations in Sequence and Remarks:
		Rig Number: Key 6052
6:30	7:30	1.0 Check pressures. PJSM. Opened 9-5/8" x 7" to FB tank. Recovered 2 bbls after 40 minutes.
7:30	9:00	1.5 HU cement pump to 9-5/8". Pump 1/2 bbl and pressure up to 500#. Wait 3 min pressure bled back to 350#. Bump pressure back up to 500#, Bleed off and circ thru manifold. To remove air f/ line. Pressure back up to 500# and isolated pressure @ WH. Had 260# of pressure loss after 15 min. Conference w/ Wexpro engineering and Dustin Doucet w/ Utah DOGM. Decision made to circulate out Poz-Gel and tag cement above CICR @1000'. Perforate 100' above cement tag and attempt to establish injection / circulation.
9:00	11:00	2.0 MU string float to single. PU single in hole w/ tubing displacing poz gel back to FB tank. Tag up on cement @ 916.84' kbm (6' in jt #32) LD single HU and circulated conventional w/ 40 bbls to displace Poz gel f/ well @ 910'. SI casing and pressured up to 1000# on 7" casing. Pressure held good w/ no communications to 9-5/8" x 7" annulus. Bleed off pressure. B/O cementers. POOH LD 5 joints. POOH SB 13 stands.B/O string float.
11:00	13:30	2.5 ND stripper head, NU WL flange, RU WL. RIH w/ 2" OD 4' perf gun dressed 4 spf (16 holes) set down @ 918' WL, PU 100' located casing collar @ 813' perforated casing 815' - 819'. POOH w/ WL- all shots fired, shut blind rams. Pressure up to 780# on 7" casing. Held pressure 20 minutes w/ no pressure losses. Bleed of casing pressure. Notified Wexpro engineering and Dustin Doucet of findings. Wait on orders.
13:30	14:30	1.0 RD WL, NU stripper head. MU coupling to bottom of first stand. TIH 13 stands, PU 5 singles. EOT @ 910'. HU cementers to tubing. Mix and pump 50 sks / 10.2 bbls @ 16.1 ppg slurry to lay in a balanced cement plug f/ 910' up to 660' inside 7" casing after tubing pull out. Displaced cement w/ 6 bbls water. Bleed back 1/4 bbl. B/O cementers , tubing was balanced. POOH LD 9 jts. HU and reverse out f/ 646' - returned 1/2 bbl of cement at bottoms up.
14:30	15:15	0.8 Pressure up on casing and cement plug to 525# isolated pressure at WH. Monitor for psi loss. Lost 30 psi in 30 min. Bleed back pressure to cementer. 1/4 bbl back then laid flat. 9-5/8" x 7" was left open to tank to monitor during 30 min test and had only a slight trickle of flow.
15:15	15:30	0.3 Mix and pump 20 bbls (12 sks) of 9.0# poz spacer to extend f/ 646' up to 150' inside 7" after tubing removal.
15:30	17:00	1.5 POOH LD remaining 22 joints of tubing. RU WL, RIH and perforated 7" casing w/ 4 circulation holes w/ 2" de-centralized gun dressed 4 spf 0 deg phased @ 150'. Dropped down to 170 and log up thru perf area @ 150'- saw no deflection on CCL indicating perf holes. POOH hang back WL. Attempt to circulate. Pressured up to 2000# w/ no pressure losses. Bleed off pressure. RIH w/ 3-3/8" CCL and log up f/ 165' to 90' seeing no indication of perforations @ either 150' or 100'. LD CCL. Build 2nd perf gun dressed w/ 4 spf.
17:00	18:00	1.0 NU WL flange to perf under pressure. RIH w/ CCL and gun only w/ no wt bar. Pressure up on casing to 1000#. Perforate casing @ 150' Lost all pressure. POOH, closed blind rams and establish circulation 1-1/2 bpm. Circulated 10 bbls - hole volume - for clean returns.Mix & pump 65 sks of Neat "G" cement w/ 3% Cacl - for 13.5 bbls of slurry. Returned 2 bbls of good cement to cement tank. SI well. Washed pump, lines and BOPE. RD cementers.
18:00	18:30	0.5 PU MU Bowen ID cutter.
18:30	20:00	1.5 RIH to 3' below GL. Attempted to cut off casing. Tongs losing bite on pony collar. POOH w/ cutter. Redress tong heads. RBI w/ cutter to 2' below GL. Cut and drop 7", POOH LD load out cutter assy. and squeeze manifold. SISW, SDFROWE.
Total Hours:		13.5

Daily Cost: \$ 33,763 Total Cost: \$ 72,485



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: FEE
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Gas Storage Well	8. WELL NAME and NUMBER: COALVILLE GAS STORAGE 2
2. NAME OF OPERATOR: QUESTAR PIPELINE COMPANY	9. API NUMBER: 43043300050000
3. ADDRESS OF OPERATOR: P.O.Box 45360 , Salt Lake city , UT, 84145	PHONE NUMBER: 801 324-5061 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1960 FNL 0020 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 10 Township: 02.0N Range: 05.0E Meridian: S	9. FIELD and POOL or WILDCAT: COALVILLE GAS STORAGE
	COUNTY: SUMMIT
	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: 5/17/2016	<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 style="width: 100px;" type="text"/>

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

Coalville 2 was P&A as per attached documentation. Please find the final report + updated WBD.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining
 FOR RECORD ONLY
 June 20, 2016**

NAME (PLEASE PRINT) Jacob Isaac K. Abraham	PHONE NUMBER 801 324-3160	TITLE Associate Engineer - Reservoir
SIGNATURE N/A	DATE 6/20/2016	



Questar Pipeline Company
333 South State Street
P.O. Box 45360
Salt Lake City, UT 84145
Tel (801) 324-3160
Fax (801) 324-5606

Coalville Gas Storage 2

API 43-043-30005

Plugging Procedure

1. Operations began on 5/2/2016 and ended on 5/17/2016.
2. Plugging procedures witnessed by Lisha Cordova of the Utah DOGM Office.
3. Set CICR at 2,327'.
4. Established injection rate.

Cement Squeeze

5. Mixed and squeezed 90 sks "G" cement. Stung out and pumped 8 bbl cement on top of CICR to 2,126'.

Poz Spacer

6. Mixed and pumped balanced 43 bbl 9.0# Poz Gel spacer from 2,102' up to 1,050'.
7. Perforate casing at 1,050' – 1,051' 4SPF.
8. Set CICR at 1,000'.
9. Tested casing at 590 psi for 15 minutes, no loses.
10. Established injection rate.

Cement Squeeze

11. Mixed and squeezed 40 sks "G" cement. Stung out and pumped cement on top of CICR to 914'.

Poz Spacer

12. Mixed and pumped balanced 34 bbl 9.0# Poz Gel spacer from 914' to surface.
13. Perforate casing at 100' – 101' 4SPF. Casing was not perforated.
14. Tagged cement top at 916.84'.
15. Circulate Poz Gel from well.
16. Perforate casing at 815' – 819' 4SPF. Casing was not perforated

Cement Plug

17. Mixed and laid in a 50 sk "G" cement balanced cement plug from 910' up to 660'.
18. Tested casing at 590 psi for 15 minutes, lost 30 psi in 30 minutes.

Poz Spacer

19. Mixed and pumped balanced 20 bbl 9.0# Poz Gel spacer from 646' to 150'.
20. Perforated csg from 150' – 151' 4SPF. Casing was not perforated.
21. Pressured up casing and perforated csg from 150' – 151' 4SPF.
22. Established circulation down 7" casing and up 7" x 9-5/8" annulus.

Cement At Surface

23. Mixed and pumped 65 sk "G" cement down 7" csg with returns up the 7" x 9-5/8" annulus. Cement returns to surface.

Cement At Surface

24. Cement down 3' in 7" casing below GL.
25. Dig out around WH, cut off guy line anchors below GL.
26. Cutoff casing 4' below GL.
27. Cement down 4" in 7" x 9-5/8" annulus below cutoff.
28. Weld regulation dry hole marker plate onto top of 9-5/8" csg 4' below ground level.
29. Back fill hole.
30. Will reclaim at a later time.
31. GPS Coordinates:
 - Latitude: 40.923487°
 - Longitude -111.378034°

Daily Operations Report

Wellbore Diagram

Well Name:	Coalville Gas Storage 2
County, State:	Summit, UT
Legal Description:	SW NW 10-2N-5E
API:	43-043-30005
SHL:	1960' FNL, 20' FWL
Updated By:	Scott Colvin
Date Updated:	5/17/2016
Spud Date:	5/12/1973
TD Date:	6/4/1973
Well TD:	2,591
Orientation:	Vertical
Plug Back MD:	Surface
Bridge Plug MD:	
Injecting Frac Jobs:	1

Latitude	40.92339
Longitude	-111.378

As of P & A	5/17/2016
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All measurements are in KB unless otherwise specified.

