Form 3160-3
(November 1983)
(formerly 9-331C)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U-16540

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [X] OTHER — SINGLE ZONE [ ] MULTIPLE ZONE [ ]

7. UNIT AGREEMENT NAME: EIGHT MILE FLAT

8. FARM OR LEASE NAME: Uintah Management

2. NAME OF OPERATOR: Uintah Management Corporation

9. WELL NO.: #34-8

3. ADDRESS OF OPERATOR: P.O. Box 197, Duchesne, Utah 84021

10. FIELD AND POOL, OR WILDCAT: ~~Wildcat~~ EIGHT MILE FLAT

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1977' FEL 660' FSL Section 8 T9S, R18E, S.L.M. SW SE
At proposed prod. zone: same

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 8, T9S, R18E, S.L.M.

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 18.6 Miles Southeast of Myton, Utah

12. COUNTY OR PARISH: Uintah

13. STATE: Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 660'

16. NO. OF ACRES IN LEASE: 480

17. NO. OF ACRES ASSIGNED TO THIS WELL: 40

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

19. PROPOSED DEPTH: 6500' Wasatch

20. ROTARY OR CABLE TOOLS: Rotarty

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 5046'

22. APPROX. DATE WORK WILL START*: A.S.A.P.

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12¼"	8 5/8"	V55 24# New	300'	Circ. to Surface
7 7/8"	5 1/2"	v55 15.5 New	6500'	Circ. to Surface

RECEIVED
SEP 18 1984
DIVISION OF OIL GAS & MINING

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 9/21/84
BY: John R. Baza

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 Orin S Hoven TITLE Field Operations DATE 9/17/84

(This space for Federal or State office use)

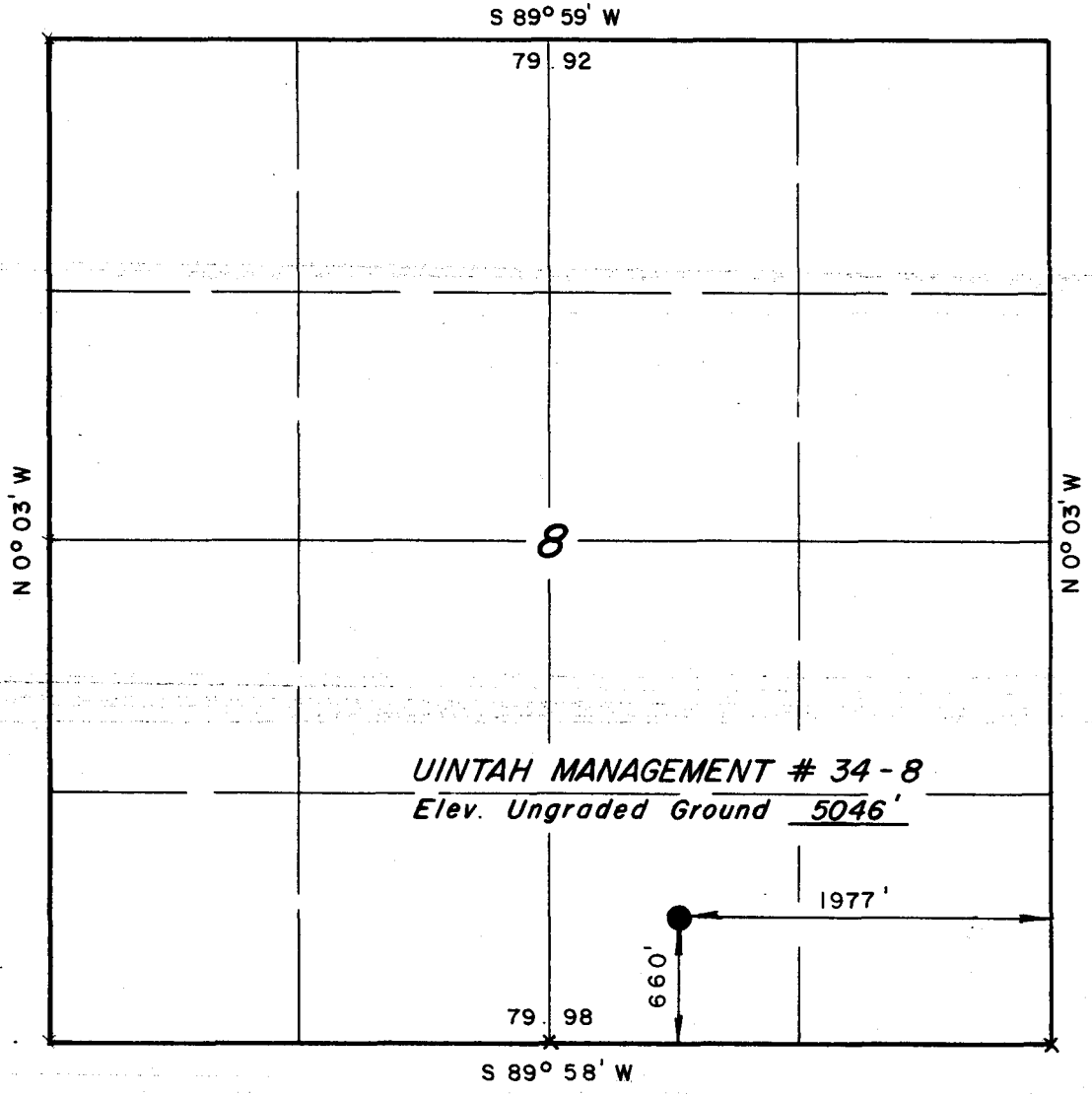
PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

T 9 S, R 18 E, S.L.B.&M.



X = Section Corners Located

PROJECT

UINTAH MANAGEMENT CORPORATION

Well location, *UINTAH MANAGEMENT #34-8*, located as shown in the SW 1/4 SE 1/4 Section 8, T9S, R18E, S.L.B.&M. Uintah County, Utah.

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Nelson Marshall

REGISTERED LAND SURVEYOR
REGISTRATION Nº 2454
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX Q — 85 SOUTH - 200 EAST
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 8 / 29 / 84
PARTY J.K. M.B. G.R. B.F.W.	REFERENCES GLO Plat
WEATHER Fair	FILE UINTAH MANAGEMENT

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company: Uintah Management Corporation Company

Well No. #34-8

Location: Section 8, T9S, R18E, S.L.M.

Lease No.: U-16540

Onsite Inspection Date: August 31, 1984

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

A. DRILLING PROGRAM

1. Surface Formation and Estimated Formation Tops:

Tertiary Uinta Formation
Green River Formation 1725'
Wasatch Tongue 5925'
Wasatch Formation 6300' T.D. 6500'

2. Estimated Depth at which Oil, Gas, Water, or other Mineral Bearing Zones are Expected to be encountered:

	Formation	Zone
Expected Oil Zones:	Green River	Wasatch Formation
Expected Gas Zones:	Green River	Wasatch Formation
Expected Water Zones:	None Expected	
Expected Mineral Zones:	None Expected	

All fresh water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

3. Pressure Control Equipment:

10" 3000 psi hydraulic blowout preventer. Blowout preventor will be tested daily. Refer to blowout preventor program.

BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

The District Office should be notified, with sufficient lead time, in order to have a BLM representative on location during pressure testing.

4. Casing Program and Auxiliary Equipment:

Size	Size of Casing & Wt./Ft.	Setting Depth	Quantity of Cement
12 1/4"	8 5/8" 24# New	300'	Circ. to Surface
7 7/8"	5 1/2" 15.5# New	6500'	440 Sx.

Anticipated cement tops will be reported as to depth, not the expected number of sacks of cement to be used. The District Office should be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.

5. Mud Program and Circulating Medium:

Fresh water base drilling mud will be used for the entire drilling operation utilizing a dispersed mud system to a total depth. Mud weight will be controlled by controlling drilling solids. Barite will be used for weighing material in the event that abnormal pressures are encountered. Total system volume will be 350 barrels, not including potential reserve pit volume.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

6. Coring, Logging and Testing Program:

1. Mud Logging Units: from 300' to T.D.

2. Dual Induction Laterlog: T.D. to base of surface casing.

3. BHC: Gamma Ray Sonic w/caliper, Integrated T.D. to base of surface.

4. Formations Density/Compensated Newtron: Zones of interest

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164.

Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and complied during the drilling, workover, and/or completion operations, will be filed with form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the authorized officer(AO).

7. Abnormal Conditions, Bottom Hole Pressures and Potential Hasards:

None expected based on previous experience in the general area.

8. Anticipated Starting Dates and Notifications of Operations:

Location Construction: Immediately after approval.

Spud Date: October 1. 1984

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

The spud date will be reported orally to the AO within 48 hours after spudding. If the spudding occurs on a weekend or holiday, the report will be submitted on the following regular working day. The oral report will be followed up with a Sundry Notice.

In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 9-329 "Monthly Report of Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed, in duplicate, to the Vernal BLM District Office, 170 South 500 East, Vernal, Utah 84078.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sen by telegram or other written communication, not later than 5 days following the date on which the well is placed on production.

Pursuant to NTL-2B, with the approval of the District Engineer, produced water may be temporarily disposed of into unlined pits for a period of up to 90 days. During the period so authorized, an application for approval of the permanent disposal metnod, along with the required water analysis and other information, must be submitted to the District Engineer.

Pursuant to NTL-4A, lesses or operators are authorized to vent/flare gas during initial well evaluation tests, not exceeding a period of 30 days or the production of 50 MMCF of gas, whichever occurs first. An application must be filed with the District Engineer and approval received, for any venting/flaring of gas beyond the initial 30 day authorized test period.

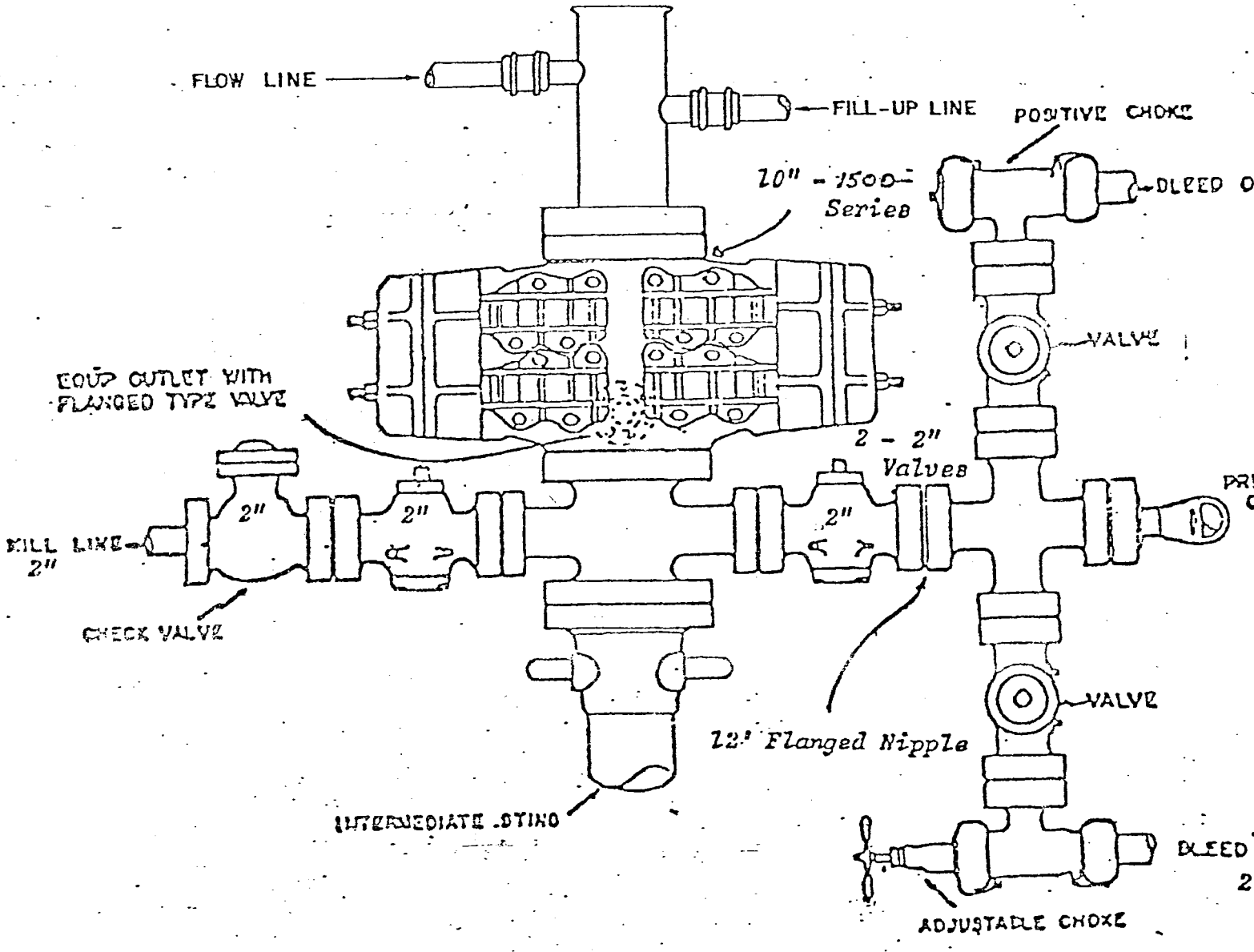
A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in 43 CFR 3162.7 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.4.

A first production conference will be scheduled within 15 days after receipt of the first production notice.

No well abandonment operations will be commenced without prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the SO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the apoproved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

Pursuant to Onshore Oil and Gas Order No. 1, lessees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in a manner which conforms with applicable Federal laws and regulations and with State and local laws and regulations to the extent that such State and local laws and regulations to the extent that such State and local laws are applicable to operations on Federal or Indian lands.

UINTAH MANAGEMENT CORPORATION



NOTE: BLOWOUT PREVENTER HAS DOUBLE RAMS; ONE BLIND AND ONE PIPE RAM.

Exhibit A

UINTAH MANAGEMENT CORPORATION

13 Point Surface Use Plan

For

#34-8

Located in

Section 8, T9S, R18E, S.L.M.

Duchesne County, Utah

UINTAH MANAGEMENT CORPORATION
#34-8
Section 8, T9S, R18E, S.L.M.

1. EXISTING ROADS:

a. Location of proposed well in relation to town or other reference point: approximately 18.6 miles Southeast of Myton, Utah.

b. Proposed route to location: From Myton, Utah proceed Westerly on U.S. Highway 40, Southerly on Utah State Highway 264 and Easterly on Eight Mile Flat Road.

c. Location and Description of roads in the area: Highway 40 bituminous surfaced, 264 bituminous for 6 miles, dirt road from there to location.

d. Plans for improvement and/or maintenance of existing roads: To be maintained as per B.L.M. requirements.

e. Other: None

2. PLANNED ACCESS ROADS:

a. Width: 30' maximum - 18' running surface

b. Maximum grades: 8%

c. Turnouts: None

d. Location (centerline): Flagged

e. Drainage: None

f. Surface materials (source): existing materials

g. Other: None

All travel will be confined to existing access road rights-of-way.

3. LOCATIONS OF EXISTING WELLS:

There are existing wells in the area. See Topographic Map for approximate locations.

4. LOCATION OF TANK BATTERIES AND PRODUCTION FACILITIES:

All permanent (onsite for six months or longer) structures constructed or installed (including oil well pump jacks will be painted a flat, non-reflective, earthtone color to match the standard environmental colors, as determined by the Rocky Mountain 5

State Interagency Committee. All facilities will be painted within 6 months of installation. Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded.

If a tank battery is constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain 1 1/2 times the storage capacity of the battery.

Tank batteries will be placed on the: Pad between Point #2 and #3

All loading lines will be placed inside the berm surrounding the tank battery.

All site security guidelines identified in 43 CFR 3162.7 regulations will be adherred to.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the AO.

Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and anchored securely at the meter. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Moab District office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

5. LOCATION AND TYPE OF WATER SUPPLY:

All water needed for drilling purposes will be obtained from: Parriette draw SE 1/4 SE 1/4 Section 27, T8S, R18E.

6. SOURCE OF CONSTRUCTION MATERIAL:

Road surfacing and pad construction material will be obtained from: The existing materials accumulated during the construction.

The use of materials under B.L.M. jurisdiction will conform to 43 CFR 3610 . 2-3.

Construction materials will be located on lease.

7. METHODS OF HANDLING WASTE DISPOSAL:

The reserve pit will not be lined:

Burning will not be allowed. All trash must be contained in a trash cage and disposed of by: A trash cage and hauled to an approved sanitary landfill.

Produced waste water will be confined to an unlined pit for a period not to exceed 90 days after initial production. During the 90 day period an application for approval of a permanent disposal method and location, along with required water analysis, will be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance, and will be grounds for issuing a shut-in order.

8. ANCILLARY FACILITIES:

Camp facilities will not be required.

9. WELL SITE LAYOUT:

The reserve pit will be located: On the Southeast corner of the location.

The stockpiled topsoil will be stored: Off of Point #1.

Access to the well pad will be from: Between Points #2 and #3.

Reserve pits will be fenced with a net wire fence and topped with at least one strand of barbed wire.

10. PLANS FOR RESTORATION OF SURFACE:

Immediately upon completion of drilling, the location and surrounding area will be cleared of all debris, materials trash and junk not required for production.

Before any dirt work to restore the location takes place, the reserve pit must be completely dry and all cans, barrels, pipe etc. will be removed.

All disturbed areas will be recontoured to the approximate natural contours.

The stockpiled topsoil will be evenly distributed over the disturbed areas.

Prior to reseeding, all disturbed areas, including the access roads, will be scarified and left with a rough surface.

Seed will be broadcast or drilled at a time specified by the BLM. If broadcast, a harrow or some other implement will be dragged over the seeded area to assure seed coverage. Also, if broadcast the seed mixture will be proportionately larger to total 14 lbs/Acre.

The following seed mixture will be used:

Stipa Comata	1 lb/Ac
Agropyron Cristatum	1 lb/Ac
Poa Secunda	1 lb/Ac
Kochia Prostrata	2 lb/Ac
Atriplex Conertifolia	2 lb/Ac
Ceratoides Lanata	2 lb/Ac
	9 lb/Ac

The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed.

Reclaimed within 90 days of well completion.

11. SURFACE AND MINERAL OWNERSHIP

Federal Minerals - B.L.M. Surface

12. OTHER INFORMATION

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.2.

"Sundry Notice and Report and Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3164.

The dirt contractor will be provided with an approved copy of the surface use plan.

A cultural resource clearance will be required before any construction begins. If any cultural resources are found during construction, all work will stop and the AO will be notified.

This permit will be valid for a period of one year from the date of approval. After permit termination a new application will be filed for approval for any future operations.

13. LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION

Representative

Name: Olin Glover

Address: P.O. Box 197, Duchesne, Utah 84021

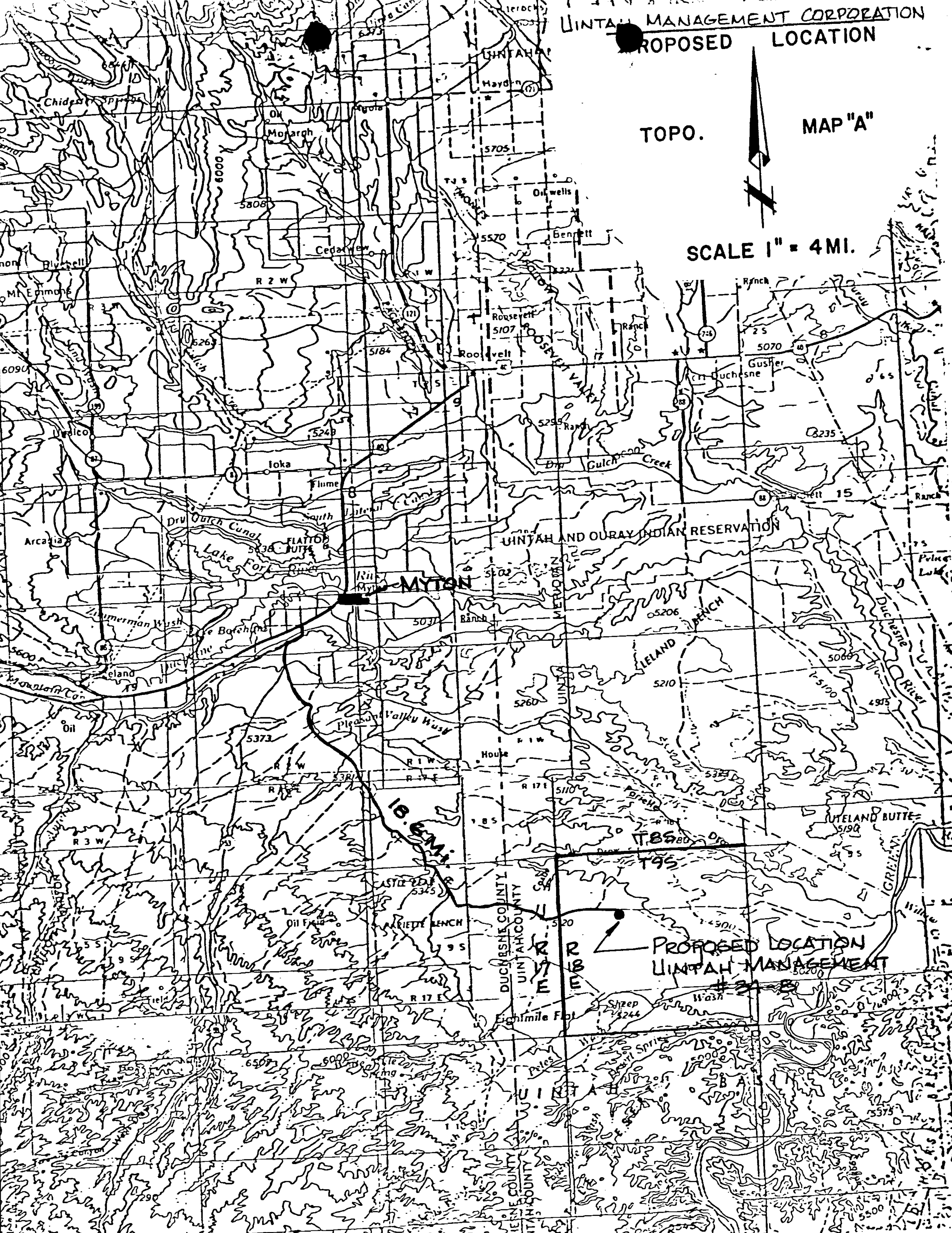
Phone No. (801) 733-2238 (801) 733-5388

Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by: Uintah Management Corporation and its contractors and subontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions or 18 U.S.C. 1001 for the filing of a false statement.

Sept 15, 1984
Date

Olin Glover

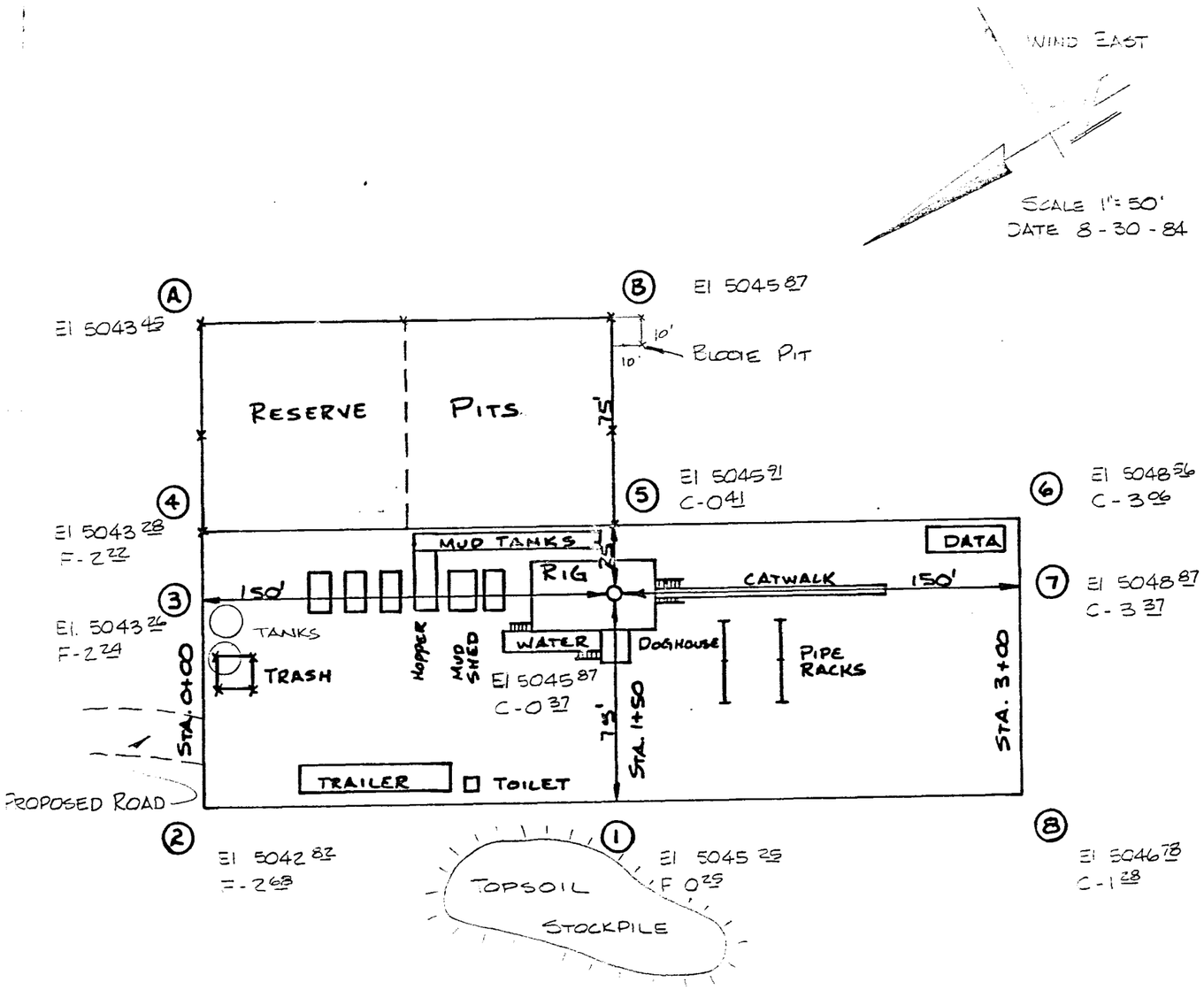


UINTAH MANAGEMENT CORPORATION
PROPOSED LOCATION
TOPO. MAP "A"
SCALE 1" = 4MI.
MYTON
18.6 Mi.
PROPOSED LOCATION
UINTAH MANAGEMENT
#31-8
T8S
T9S
R 17 E
R 18 E
UINTAH AND OURAY INDIAN RESERVATION
Roosevelt
Ioka
Monarch
Cedarview
Bennett
Leland Bench
Pleasant Valley Wash
Castle Peak
Pariette Bench
Eightmile Flat
Sheep Wash
Uteland Butte
Duchesne River
Green
Arcadia
Bridgeland
Myton
Fort Duchesne
Gusher
Hayden
Neola
Mt Emmons
Altamont
Boneta
Lake Fork River
Dry Gulch Canal
Flattop Butte
Duchesne County
Uintah County
Uintah Meridian
Oil wells
Oil Field

UINTAH MANAGEMENT CORPORATION

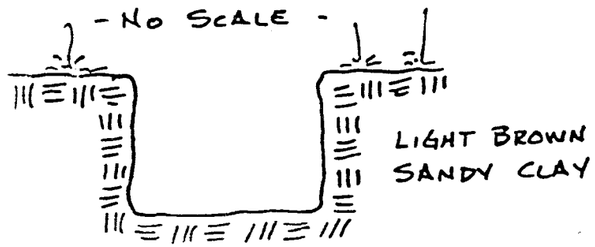
UINTAH MANAGEMENT # 34-8

LOCATION LAYOUT & CUT SHEET

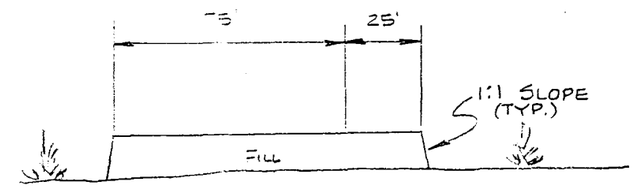


SOILS LITHOLOGY

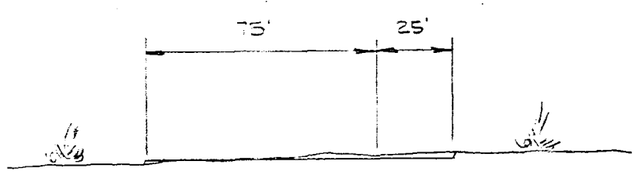
- NO SCALE -



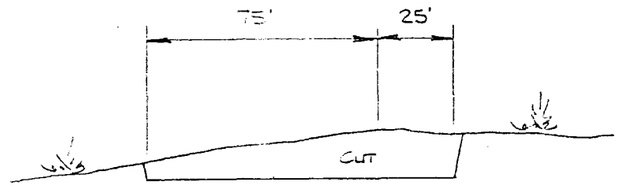
CROSS SECTIONS



STA 0+00



STA 1+50



STA 3+00

1" = 10'

SCALES

1" = 50'

APPROXIMATE YARDAGES

CUBIC YDS. CUT = 944

CUBIC YDS. FILL = 522

OPERATOR Uintah Management Corp DATE 9-20-84

WELL NAME #34-8 EIGHT MILE FLAT UNIT

SEC SWSE 8 T 9S R 18E COUNTY Uintah

43 047 - 31547
API NUMBER

Fed
TYPE OF LEASE

POSTING CHECK OFF:

☐ INDEX	☐ HL	☐
☐ NID	☐ PI	☐
☐ MAP	☐	☐

PROCESSING COMMENTS:
~~No other wells within 1320'~~ Unit Well - ok on POD
Need water permit

APPROVAL LETTER:

SPACING: ☑ A-3 Eight Mile Flat UNIT ☐ c-3-a CAUSE NO. & DATE

☐ c-3-b ☐ c-3-c

SPECIAL LANGUAGE:
1- Water

- [x] RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.
- [x] AUTHENTICATE LEASE AND OPERATOR INFORMATION
- [x] VERIFY ADEQUATE AND PROPER BONDING
- [x] AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.
- [ ] APPLY SPACING CONSIDERATION
    - [ ] ORDER _____
    - [ ] UNIT _____
    - [x] c-3-b
    - [ ] c-3-c
- [x] CHECK DISTANCE TO NEAREST WELL.
- [ ] CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.
- [x] IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER
- [x] IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

September 21, 1984

Uintah Management Corporation
P. O. Box 197
Duchesne, Utah 84021

Gentlemen:

Re: Well No. Eight Mile Flat Unit #34-8 - SW SE Sec. 8, T. 9S, R. 18E
660' FSL, 1977' FEL - Uintah County, Utah

Approval to drill the above referenced oil well is hereby granted in accordance with Section 40-6-18, Utah Code Annotated, as amended 1983; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.

2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.

3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 533-5771, (Home) 298-7695 or R. J. Firth, Associate Director, (Home) 571-6068.

4. Compliance with the requirements and regulations of Rule C-27, Associated Gas Flaring, General Rules and Regulations, Oil and Gas Conservation.

5. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-047-31547.

Sincerely,

R. J. Firth
Associate Director, Oil & Gas

as
Enclosures
cc: Branch of Fluid Minerals

Form 3160-3
(November 1983)
(formerly 9-331C)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER — SINGLE ZONE [ ] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: Uintah Management Corporation

3. ADDRESS OF OPERATOR: P.O. Box 197, Duchesne, Utah 84021

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1977' FEL 660' FSL Section 8 T9S, R18E, S.L.M.
At proposed prod. zone: same

5. LEASE DESIGNATION AND SERIAL NO.: U-16540

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Uintah Management

9. WELL NO.: #34-8

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 8, T9S, R18E, S.L.M.

12. COUNTY OR PARISH: Uintah

13. STATE: Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 18.6 Miles Southeast of Myton, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 660'

16. NO. OF ACRES IN LEASE: 480

17. NO. OF ACRES ASSIGNED TO THIS WELL: 40

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

19. PROPOSED DEPTH: 6500'

20. ROTARY OR CABLE TOOLS: Rotarty

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 5046'

22. APPROX. DATE WORK WILL START*: A.S.A.P.

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12¼"	8 5/8"	V55 24# New	300'	Circ. to Surface
7 7/8"	5 1/2"	v55 15.5 New	6500'	Circ. to Surface

SICP = ± 575 psi
Anticipated BHP ± 2900 psi

RECEIVED
SEP 28 1984
DIVISION OF OIL GAS & MINING

SEP 1984
RECEIVED
2:20PM
Vernal, Utah

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 Alvin Loveridge TITLE Field Operations DATE 9/17/84

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE DISTRICT MANAGER DATE 9/27/84

CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

Div. O G & M

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company Uintah Management Corp. Well No. 34-8

Location Sec. 8 T 9S R 18E Lease No. U-16540

Onsite Inspection Date 8-31-84

A. DRILLING PROGRAM

1. Estimated Depth at which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered:

   Geologic Data indicates possible fresh water zones may exist down to +/- 500'. If encountered while drilling, these zones shall be protected either by setting the surface casing deeper or by bringing the cement for the production string up higher.

2. Pressure Control Equipment

   In accordance with API RP 53, 3,000 psi BOP stacks shall be equipped with an Annular Bag-Type preventer. Prior to drilling out the surface casing shoe, the Ram-Type preventers shall be tested to 2,000 psi, and the Annular-Type preventer shall be tested to 1,500 psi.

   The choke manifold system will be consistent with API RP53.

3. Coring, Logging and Testing Program

   Daily drilling reports shall be submitted to this office on a weekly basis.

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

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.)

5. LEASE DESIGNATION AND SERIAL NO.: U-16540

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL [X] GAS WELL [ ] OTHER

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: Uintah Management Corporation

8. FARM OR LEASE NAME: Uintah Management

3. ADDRESS OF OPERATOR: P.O. Box 197, Duchesne, Utah, 84021

9. WELL NO.: #34-8

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1977' FEL, 660' FSL, Sec. 8, T9S, R18E SLB&M

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 8, T9S, R18E SLB&M

14. PERMIT NO.: UT-080-4-M-264

15. ELEVATIONS (Show whether DF, RT, GR, etc.): GR 5046

12. COUNTY OR PARISH: Uintah

13. STATE: Utah

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) Spudding			[X]
(Other) Set surface casing & cement			[X]	(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.) *

(a) Well spudded 3:30AM 10/24/84; telephone report @ 3:00PM 10/24/84.

(b) Surface casing will be set early AM on 10/25/84 and cemented as soon as possible thereafter.

(c) Drilling through surface casing plug will commence as soon as possible after cement sets.

RECEIVED
OCT 29 1984
DIVISION OF OIL
GAS & MINING

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

SIGNED David B. Emmert TITLE Office Manager DATE 10/24/84

David B. Emmert

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Uinta Research and Analytical Services

P.O. BOX 1488 — ROOSEVELT, UTAH 84066

ames F. Smith

(801) 722-2532

Crude Oil Analysis Report:

Company Name: Hill Gart Oper. Co
Sample Point: Fed 34-8
Field: _____
Depth: _____

Date Sampled: 5-1-85
Location: _____
County: _____
URAS Log Number: 0-998

Date: 5-1-85

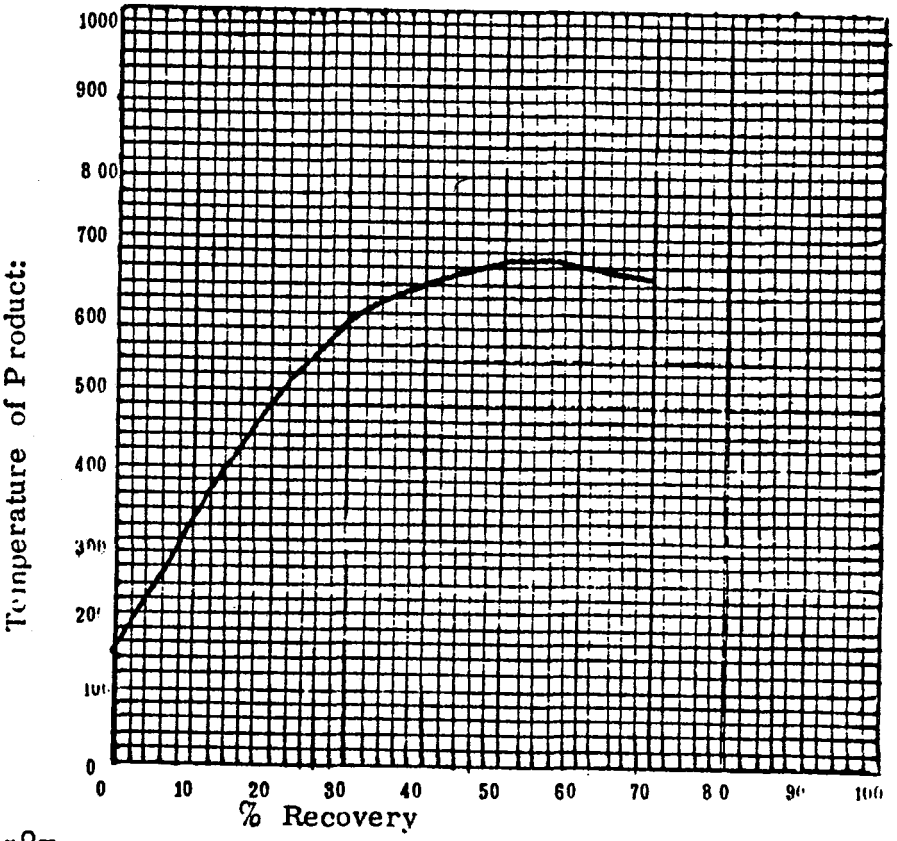
A.P.I. Gravity @ 60/60 f 34.1
145.2 Saybolt Sec. Vis at 140 °F
114.0 Saybolt Sec. Vis at 200 °F

B.S.W. % by Volume: 2.0

Metals:	PPM:

% Distillation:	°F
I.B.P.	156
5 %	
10 %	330
20 %	488
30 %	591
40 %	640
50 %	666
60 %	660
70 %	645
80 %	
90 %	
End Point	666
% Recovery	73
% Residue	23
% Loss	4

Distillation Graph:



Comments: Pour Point = 95°F
Gasoline = 16% of Dist. Kerosene = 6% of Dist.
Diesel = 7 % of Dist. Heavy Ends = remainder of Dist.

Analysist: _____

Gas Chromatography | Hydrogen Sulfite | Oil Analysis | Well Meter Calibrations

TerraTek Core Services, Inc.®

November 5, 1984

Quest Drilling & Exploration, Inc.
P. O. Box 197
Duchesne, Utah 84021

Attention: Mr. Dan Lunsford

Subject: Sidewall Core Analysis; Federal No. 34-8 Well; Uintah County, Utah; TTCS File No. 85095

Gentlemen:

Tabulated on the following page are the results of our analysis of percussion type sidewall samples submitted to our Salt Lake City laboratory by Mr. Doug Thamer on November 3, 1984.

Residual fluids were measured by the controlled temperature retort extraction method on those samples that were suitable. Porosities were determined by the summation of fluids technique, and permeabilities were empirically determined. It should be noted that the oil saturations measured in samples Nos. 3 and 7 are the result of organic material rather than mobile hydrocarbons.

We sincerely appreciate this opportunity to be of service.

Very truly yours,

Jack R. Good

Jack R. Good
Laboratory Director

JRG/slp

• 360 Wakara Way • Salt Lake City, Utah 84108 • (801) 584-2480
• 920 Central Avenue • Suite #2 • Billings, Montana 59102 • (406) 256-0371
• 1625 Broadway • Suite 2110 • Denver, Colorado 80220 • (303) 595-0263

Terratek Core Services, Inc.

University Research Park - 360 Wakara Way - Salt Lake City, Utah 84108 - (801) 584-2480 - TWX 910-925-5284

QUEST DRILLING & EXPLORATION

Well:	Federal No. 34-8	State:	Utah	Date:	06 Nov 1984
Field:	Eight Mile Flat	County:	Uintah	TTCS File #:	85095
Drilling Fluid:	Water Base	Location:		Elevation:	

SIDEWALL CORE ANALYSIS

Sample Number	Depth (feet)	Permeability Horz (md)	Porosity (%)	Saturation Oil (%)	Saturation H2O (%)	Odor	Flour	Lithology
GREEN RIVER FORMATION								
1	3064.0					0	0	Sd,f-mg,lmy,Unsuited for Analysis
2	4608.0					F	G	Sd,f-vfg,sl/lmy,Unsuited for Analysis
3	5216.0	0.40	9.3	34.4	46.8	0	0	Ls,dol,shy,lig
4	5344.0	15	18.8	17.0	59.3	F	F	Sd,f-vfg,slty
5	5352.0	35	22.7	10.9	73.9	F	F	Sd,f-vfg,slty
6	5413.0					F	G	Sd,f-mg,sl/lmy,Unsuited for Analysis
7	5751.0	0.20	12.1	22.4	59.7	0	0	Sh,sl/slty,lmy,lig

Form 3160-4
(November 1983)
(formerly 9-330)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

15

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: U-16540

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Eight Mile Flat

8. FARM OR LEASE NAME: Uintah Managment Corp.

9. WELL NO.: 34-8

10. FIELD AND POOL, OR WILDCAT: ~~Wildcat~~ Eight Mile Flat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: SW¼ SE¼ Sec. 8, Town 9S R18E, SLB & M

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

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

2. NAME OF OPERATOR: ~~Uintah Management Corporation~~ S. O. Utah

3. ADDRESS OF OPERATOR: 3760 Highland Drive, #500, Salt Lake City, Ut 84106

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface: 1977' FEL, 660' FSL, of Section 8 SWSE
At top prod. interval reported below: same
At total depth: same

14. PERMIT NO.: 43-047-31547 DATE ISSUED: Sept. 27, 1984

12. COUNTY OR PARISH: Uintah

13. STATE: Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
10/24/84	11/2/84	12/9/84	RKB 5056'	5047'

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5924'	None	Single	→	X	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 5416'-5428', 5346'-5354' Green River

25. WAS DIRECTIONAL SURVEY MADE: Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN: Gamma Ray, Dual Induction, MSFL.

27. WAS WELL CORED: yes-sidewall

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24#	323	12 1/4"	220 sks, Class G	-
5 1/2"	15½#	5922	7 7/8"	675 sks, Class G	-

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8"	5506'	

31. PERFORATION RECORD (Interval, size and number)
5422'-5428' } 4 spf - 32 shots
5416'-5418' } .38 size
5346' - 5354' 4 spf - 32 shots

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
As at left, Smith Energy Services (two fracs)	71M gal GWX7; 112M #20/40 sand 70 gal FRS01; 38 gal BCS01; 70g. SAA01; 70#WCB01; 6500# KCL 3 M gal Methanol

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
12/10/84	Pumping - Trico 1½" X 16'	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
11/23/84	10 hrs	-		70	5	105	Under 1%

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
500 #	100 #		168	12	252	31.5 EST

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): Used for fuel and vented

TEST WITNESSED BY: D. Lunsford

35. LIST OF ATTACHMENTS: Cement Bond Log, Sidewall Core Analysis (other logs not yet received) Mud Log

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

SIGNED [signature] TITLE _____ DATE 12/20/84

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

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
				GREEN RIVER	1362'	
				BASAL GR RIVER	5724'	
				WASATCH	5844'	

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Green River	5346'	5354'	Perforated and factured - currently
Green River	5416'	5428'	Producing

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH

March 13, 1985

RECEIVED

MAR 14 1985

DIVISION OF OIL
GAS & MINING

State of Utah
Division of Oil, Gas & Mining
355 N. W. Temple
Three Triad Center - Suite 350
Salt Lake City, UT 84180-1203
Attn: Claudia Jones

Dear Ms. Jones:

Per our conversation the other day, please find the following Sundry Notices regarding change of operator:

#11-8	U-16540	API U-080-4-M-266
#34-8	U-16540	API U-080-4-M-264
#13-8	U-16540	API U-080-4-M-265
#32-13	U-18048	API 43-047-31277
#34-13	U-18048	API UT-080-4-M-267

Please note that these locations are now being operated by OS Utah located in Irvine, California. The operations are sub-contracted to Hill-Hart, Inc. located in Englewood, Colorado. I've also indicated the field contact on these wells.

I do not believe we will be able to get a form from Uintah Management relinquishing the operations of these wells. Please let me know if these is absolutely required.

I would appreciate it if you would contact me at 801/322-5009 regarding the status of the Monthly Report on production. As I had mentioned, we are unable to find any records that these were filed by Uintah Management from initial production dates.

Thank you for your time and patience with us in getting this matter on the right track.

Very truly yours,

Jodie S. Faulkner
Production Technician

cc: Chris Brooks

Form OGC-1b

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

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.)

RECEIVED
MAR 14 1985
DIVISION OF OIL GAS & MINING

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: SO Utah

3. ADDRESS OF OPERATOR: 17922 Fitch Avenue - Suite 100 Irvine, CA 92714

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface: 1977' FEL and 660' FSL SW/SE

5. LEASE DESIGNATION AND SERIAL NO.: U-16540

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Eight Mile Flat

8. FARM OR LEASE NAME: Uintah Management Corp.

9. WELL NO.: #34-8

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 8, T9S, R18E

14. PERMIT NO.: U-080-4-M-264

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5056' RKB

12. COUNTY OR PARISH: Uintah

13. STATE: Utah

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) Change of Operator			[XX]
(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.) *

Please be advised that the above named operator is filing notice to inform you that they have become the Designated Operator on the subject well. Note this became effective February 1, 1985. Contact Lee Sammis (714/863-1121)

Operations are sub-contracted to:

HILL-HART, INC.
P.O. Box 3668
Englewood, CO 80155
Attn: Chris Brooks (303/773-3230)

Field Contact: Scott Seeby
(801/789-4200 Mobile# Englewood 4025)

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

SIGNED [signature] TITLE PROD TECH DATE 3-12-85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

March 14, 1985

RECEIVED

MAR 15 1985

DIVISION OF OIL
GAS & MINING

State of Utah
Division of Oil, Gas & Mining
355 N. West Temple
Three Triad Center - Suite 350
Salt Lake City, UT 84180-1203
Attn: Claudia Jones

Dear Ms. Jones:

Per our conversation today, please find the enclosed Sundry Notices:

#11-8	U-16540
#34-8	U-16540
#13-8	U-16540
#32-13	U-18048
#34-13	U-18048

As I had indicated to you, the original Sundries to change the operator had shown the operations were sub-contracted to Hill-Hart, Inc. Please note that this has been corrected to Hill-Hart Operating. I would appreciate you making note of this.

If there are any questions, or if the copies of Sundries will not suffice, please advise.

Very truly yours,

Jodie S. Faulkner
Production Technician

cc: Chris Brooks
Scott Seeby

(November 1983)
(Formerly 9-331)

DEPARTMENT OF THE INTERIOR (verse side)
BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.: U-16540
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 [X] GAS WELL [ ] OTHER
7. UNIT AGREEMENT NAME: Eight Mile Flat
2. NAME OF OPERATOR: Hill-Hart Operating
8. FARM OR LEASE NAME: S. O. Utah
3. ADDRESS OF OPERATOR: P. O. Box 3668 Englewood, CO 80155
9. WELL NO.: 34-8
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1977' FEL, 660' SSL, of Section 8
10. FIELD AND POOL, OR WILDCAT: Green River
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SW ¼ SE ¼ Sec 8 TSP 9S 1218E' SLB&M
12. COUNTY OR PARISH: Uintah
13. STATE: Utah

DUPLICATE

14. PERMIT NO.: UT-080-4-M264
15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5056 RKB

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)			
XX (Other) Notice of non-compliance				(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.) *

1.) SIGN VARIENCE REQUEST
Designation of new operator is forthcoming. Current well signs show Uintah Management Corporation and Quest Drilling & Exploration. New signs are ordered reflecting change in operator name. We request a 60 day abatement period until new signs are completed.

2.) REQUEST FOR PIT LINER WAIVER
The pit on this location is 50' X 70' by 4' deep. It is fenced with steel tubular corner posts. Bottom 3' of fence is 4" mesh wire with two strands of barbed wire on top. The fence is 4' tall. Current production is 21 BBL/D with approximately 8% BS&W wellhead cut with water at 0.2%. Total water dumped to pit is 0.042 BBL/D. We respectfully request a waiver for a pit liner. Oil analysis is attached.

3.) HYDROCARBONS IN PIT
Approximately 4 BBL's of oil is on pit. We request a 90 day abatement period until weather warms up to clean oil off of pit.

18. I hereby certify that the foregoing is true and correct
SIGNED [signature] TITLE Operator DATE March 19, 1985

(This space for Federal or State office use)
APPROVED BY [signature] TITLE Acting Area Mgr DATE 4/04/85
CONDITIONS OF APPROVAL, IF ANY:

OPERATOR

*See Instructions on Reverse Side

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UMC UINTAH MANAGEMENT CORPORATION

April 22, 1985

RECEIVED

APR 23 1985

DIVISION OF OIL
GAS & MINING

Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Attn: Claudia Jones

Re: Eightmile Flat Unit
EMFU 32-13
EMFU 34-13
EMFU 11-8
EMFU 13-8
EMFU 34-8
T9S R18E
Uintah County, Utah

Gentlemen:

This letter is to advise you that Uintah Management Corporation has sold it's interest in the referenced wells to SO Utah. All future correspondence should be forwarded to them.

Should you have any questions regarding this matter please do not hesitate to contact me.

Sincerely,

Jay Mealey
President

cc: Andy Buffmire- SO Utah

UMC UINTAH MANAGEMENT CORPORATION

July 17, 1985

State of Utah
Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180

Attn: Pam Kenna

Re: Eightmile Flat Unit
EMFU 32-13; 34-13; 13-8;
11-8; 34-8; 41-8
Uintah County, Utah

Gentlemen:

Please be advised that Uintah Management Corporation is no longer the operator of the referenced wells. The new operator is S.O. Utah whose address is 17922 Fitch Ave, Suite 100, Irvine, California 92714.

Should have any questions regarding this matter please do not hesitate to contact me.

Sincerely,

Jay Mealey
President

RECEIVED
JUL 19 1985
DIVISION OF OIL
GAS & MINING

P.O. BOX 9157 • SALT LAKE CITY, UTAH 84109-0157 • (801) 277-9973

Hill-Hart Operating Co.

P.O. Box 3688
Englewood, Colorado 80115
303-773-2764

September 10, 1985

State of Utah
Natural Resources
355 W. North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180

Attention: Pam Kenna

Re: Well No. 34-8 Eight Mile Flat - Sec 8, T. 9S., R. 18E., Uintah County, Utah - API #43-047-31547

Dear Ms. Kenna:

Pursuant to your letter of August 23, 1985 please find enclosed well core sample reports and Form #OGC-3 (back side) with geological markers.

We are sorry for the oversight. Please contact me should you have any questions.

Sincerely,

HILL-HART OPERATING COMPANY

C H. Brooks per HH

C. H. Brooks

CHB:hs

no core samples sent on this well SB

Form OGC-3

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

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

56 64 01

15

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

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

2. NAME OF OPERATOR
~~Hill-Hart Operating Company~~ SO Utah

3. ADDRESS OF OPERATOR
P.O. Box 3668, Englewood, CO 80155

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface 1977' FEL, 660, SSL, of Section 8
At top prod. interval reported below
At total depth

RECEIVED
SEP 13 1985
DIVISION OF OIL GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.
U-16540

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Eight Mile Flat

8. FARM OR LEASE NAME
S. O. Utah

9. WELL NO.
34-8

10. FIELD AND POOL, OR WILDCAT
Green River

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
SW¼ SE¼ Sec 8
Twp 9S 1218E SLB&N

14. PERMIT NO. UT-080-4-M264 | DATE ISSUED

12. COUNTY OR PARISH Uintah | 13. STATE Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
			5056 RKB	

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

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN

27. WAS WELL CORED

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
~~Supplemental Report~~					

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (*Interval, size and number*)

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*)	WELL STATUS (*Producing or shut-in*)

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

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

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

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

SIGNED C.H. Brooks per tt TITLE Pres. Hill-Hart Operating Co. DATE 9-10-85

*(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.)

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Top Green River	1362'	
Basil Green River Line	5724'	
Wasatch	5844'	

Form OGC-1b

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

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

5. LEASE DESIGNATION AND SERIAL NO.: U-16540

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.)

RECEIVED
SEP 13 1985
DIVISION OF OIL GAS & MINING

1. OIL WELL [X] GAS WELL [ ] OTHER

7. UNIT AGREEMENT NAME: Eight Mile Flat

2. NAME OF OPERATOR: Hill-Hart Operating Co.

8. FARM OR LEASE NAME: S. O. Utah

3. ADDRESS OF OPERATOR: P. O. Box 3668, Englewood, CO 80155

9. WELL NO.: 34-8

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1977' FEL, 660' SSL, of Section 8

10. FIELD AND POOL, OR WILDCAT: Green River

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SW¼ SE¼ Sec 8 Twp 9S 1218E SLB&N

14. PERMIT NO.: UT-080-4-M264

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5056 RKB

12. COUNTY OR PARISH: Uintah

13. STATE: Utah

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) Removal of Contract Operator			[ ]
(Other) Removal of Contract Operator			[ ]	(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.)*

This report is to notify you that as of August 31, 1985 Hill-Hart Operating Co. will no longer serve as the contract operator for S. O. Utah.

Contact of S. O. Utah: Mr. Doug Thamer
408-373-2656

Field Contact for S. O. Utah: Mr. Scott Seeby
Mobile # 801-789-4200
Unit 9025

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

SIGNED C.H. Brooks per HH TITLE Pres. Hill-Hart Operating Co. DATE 9-10-85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Hill-Hart Operating Co.

P.O. Box 3688
Englewood, Colorado 80115
303-773-2764

September 25, 1985

RECEIVED

SEP 27 1985

DIVISION OF OIL
GAS & MINING

State of Utah
Natural Resources
355 W. North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180

Attention: Pam Kenna

Re: Sidewall core sample reports for:

Well No. 13-8 Eight Mile Flat -Sec 8, T. 9S, R. 18E, Uintah County, Utah - API #43-047-31546
Well No. 32-13 Eight Mile Flat - Sec. 8, T.9S., R. 18E., Uintah County, Utah - API #43047-31546
Well No. 34-8 Eight Mile Flat - Sec. 8, T. 9S., R. 18E., Uintah County, Utah - API #43-047-31547
Well No. 34-13 Eight Mile Flat 0 Sec 8, T. 9S., R. 18E., Uintah County, Utah - API #43-047-31538

Dear Ms. Kenna:

When we sent the supplemental report on Form OGC-3 we inadvertently neglected to include the side wall core sample reports. Please find copies of these reports enclosed for all of the above wells.. Hope this has not caused you any inconvenience.

Sincerely,

HILL-HART OPERATING COMPANY

C. H. Brooks

CHB:hs

enc.: 4

TerraTek Core Services, Inc.®

QUEST DRILLING & EXPLORATION, INC.

Federal No. 34-8 Well
Uintah County, Utah

TTCS File No. 85095

Cores	Interval	Formation
Sidewall	3064 - 5751 (intermittent)	Green River

• 360 Wakara Way • Salt Lake City, Utah 84108 • (801) 584-2480
• 920 Central Avenue • Suite #2 • Billings, Montana 59102 • (406) 256-0371
• 1625 Broadway • Suite 2110 • Denver, Colorado 80220 • (303) 595-0263

Form OGC-1b

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

SUBMIT IN TRIPLICATE (other instructions on reverse side)

15

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.)

RECEIVED
OCT 24 1985
DIVISION OF OIL GAS & MINING

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: S.O. UTAH, INC.

3. ADDRESS OF OPERATOR: 1344 W. HYWY. 40 VERNAL, UTAH 84078

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface: 1977' FEL, 660' SSL, of SECTION 8

5. LEASE DESIGNATION AND SERIAL NO.: U-16540

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N.A.

7. UNIT AGREEMENT NAME: EIGHT MILE FLAT UNIT

8. FARM OR LEASE NAME: S.O. UTAH

9. WELL NO.: 34-8

10. FIELD AND POOL, OR WILDCAT: GREEN RIVER

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SW1/4 SE1/4 SEC.8 TWP 9S R18E SLB&M

12. COUNTY OR PARISH: UINTAH

13. STATE: UTAH

14. PERMIT NO.: U-080-4-M-264

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5056' RKB

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 PLANE	[ ]	(Other) Change of Operator			
(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.)*

Please be advised that as of September 1, 1985 S.O. Utah, Inc. has become operator of the subject well. Effective August 31, 1985 Hill-Hart Operating Company is no longer Designated Operator.

Contact for S.O. Utah, Inc.: Mr. Doug Thamer
P.O. Box 6107
1997 S. 1100 E.
S.L.C., Utah 84106
801-484-0942

Field Contact for S.O. Utah, Inc.: Mr. Scott Seeby
1344 W. HyWy. 40
Vernal, Utah 84078
801-789-4666

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

SIGNED Scott J. Seeby TITLE Operations Manager DATE 10-21-85

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

GAVILAN PETROLEUM, INC.
P.O. Box 6107
Salt Lake City, Utah 84106

1997 South 1100 East
Salt Lake City, Utah 84106
(801) 484-0942

November 25, 1985

State Of Utah
Division Of Oil, Gas & Mining
3 Triad Center-Suite 350
355 West North Temple
Salt Lake City, Utah 84180-1203

Attention: Pam Kenna

Re: Logs for Well No. Eight Mile Flat 34-8
Sec.8, T.9S., R.18E, Uintah County, Utah
API #43-047-31547

Dear Ms. Kenna:

Pursuant to your letter of October 4, 1985, please find enclosed all logs run on the above referenced well: Gama Ray, Dual laterlog, MSFL, Compensated Density and Neutron, Laser, and Cement Bond.

We apologize for not taking care of this matter before October 18, 1985. Please contact me should you have any questions.

Sincerely

Scott J. Seeby

Mr. Scott J. Seeby
Operations Manager, S.O. Utah

SS:jr

Enclosure

FLOPETROL JOHNSTON
Schlumberger

WELL PERFORMANCE TEST REPORT

A Production Systems Analysis (NODAL)
Based On
Drillstem Test Data

Test Date: 1 MAY 85

Report No.: 36634 E

COMPANY
HILL HART OPERATING

WELL
#34-8

TEST IDENTIFICATION
- Test Type: CH DST
- Test Number: 1
- Formation: GREEN RIVER
- Test Interval: 5317 TO PBTD
- Reference Depth: KELLY BUSHING

WELL LOCATION
- Field: EIGHT MILE FLAT
- County: UINTAH
- State: UTAH
- Sec / Twn / Rng: SEC 8 9S 18E
- Elevation: 5056 KB

HOLE CONDITIONS
- Total Depth (MVD/TVD): 5925 TD
- Hole Size / Deviation Angle: 7 7/8 IN
- Csg / Liner ID: 5.5 IN. , 24#/FT
- Perf'd Interval: 5346-5354,5416-18,
- Shot Density / Phasing: 5422-28, 4SPF
- Gun Type / Perf Cond: ?

MUD PROPERTIES
- Mud Type: OIL
- Mud Weight: 7.12 #/GAL
- Mud Resistivity: -
- Filtrate Resistivity: -
- Filtrate Chlorides: -
- Filtrate Nitrates: -

INITIAL TEST CONDITIONS
- Gas Cushion Type: NONE
- Surface Pressure: ZERO
- Liquid Cushion Type: NONE
- Height Above DST Valve: N/A

TEST STRING CONFIGURATION
- Pipe Length / ID: 5286 FT / 2.441 IN
- Collar Length / ID: -
- Packer Depth(s): 5317 FT
- BH Choke Size: .5 IN

NET PIPE RECOVERY

Volume	Fluid Type	Physical Properties
18.6 BBL	OIL	34.1° API @ 60°F

NET SAMPLE CHAMBER RECOVERY

Volume	Fluid Type	Physical Properties
.44 FT3	GAS	
1075 CC	OIL	34.1 ° API @ 60°F
		141.04 SUS @ 148°F
Pressure:	GOR:	GLR:

INTERPRETATION RESULTS
- Reservoir Pressure @Gauge Depth: 1409 PSIA
- Gauge Depth: 5322 FT
- Hydrostatic Gradient: .26 PSI/FT
- Potentiometric Surface: -
- Effective Permeability to _____: 19.53 MD
- Transmissibility: 27.8 MD-FT/CP
- Skin Factor / Damage Ratio: -1.6 / XF = 15.3FT
- Omega / Lambda (2φ System): -
- Radius of Investigation: -
- Measured Wellbore Storage: -

FRACTURE CONDUCTIVITY = 134 MD-FT

ROCK / FLUID / WELLBORE PROPERTIES
- Reservoir Temperature: 148° F
- Analysis Fluid Type: OIL
- Formation Volume Factor: 1.045 RBL/STB
- Viscosity: 25.29 CP (FROM PVT)
- Z-Factor (gas only): -
- Net Pay: 36 FT
- Porosity: 13 %
- Total System Compressibility: 3.35 E-5 1/PSI
- Wellbore Radius: .332 FT
- Expected Wellbore Storage: -

FLOW RATE DURING DST

30.6 BOPD - LAST RATE

MAXIMUM FLOW RATE POTENTIAL AFTER COMPLETION

SEE SENSITIVITY PLOTS

This rate is based on a specific completion design & producing time. Call FJS for details

FJS-5 B14059

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

(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.)

RECEIVED
DEC 11 1985
DIVISION OF OIL GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.: U-16540
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT AGREEMENT NAME: Eight Mile Flat Unit
8. FARM OR LEASE NAME: S.O. Utah, Inc.
9. WELL NO.: 34-8
10. FIELD AND POOL, OR WILDCAT: GreenRiver
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SEC.8, TWP 9S, R18E SW¼ SE¼
12. COUNTY OR PARISH: Uintah
13. STATE: Utah

1. OIL WELL ☒ GAS WELL ☐ OTHER
2. NAME OF OPERATOR: S.O. Utah, Inc.
3. ADDRESS OF OPERATOR: 1344 West Hwy 40, Vernal, Utah 84078
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1977' FEL, 660' FSL
14. PERMIT NO.: U-080-4-M-264
15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5056' RKB

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) Cased Hole D.S.T.			
(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.)*

Effective September 1, 1985 S.O. Utah, Inc. released Hill-Hart Operating Co. as designated operator of subject well. Hill-Hart Operating Co. was operator between February 1, 1985 and September 1, 1985. After receiving their well files we find that a Cased Hole D.S.T. Report was not sent to your office. S.O. Utah, Inc. wishes to apologize and report this event.

A Cased Hole D.S.T. occurred on May 1, 1985. The interval tested was 5346'-5354',5416'-5418', 5422'-5428: Please find attached the details of this Cased Hole D.S.T.

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

SIGNED Scott J. Seeley TITLE Operation Manager DATE 12-2-85

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

SOONER CHEMICAL SPECIALTIES, INC.

P.O. Box 711 SEMINOLE, OKLAHOMA 74868 Phone (405) 382-2000
P.O. Box 696 GRAND JUNCTION, COLORADO 81502 Phone (303) 858-9765
P.O Box 1436 ROOSEVELT, UTAH 84066 Phone (801) 722-3386

WATER ANALYSIS REPORT

COMPANY Gavilan Petroleum S.O.Utah ADDRESS Roosevelt, Utah DATE: 12-5-85

SOURCE 13-8 DATE SAMPLED _____ ANALYSIS NO. 1895

	Analysis	Mg/l (ppm)		*Meq/l
1. PH	6.75			
2. H_2S (Qualitative)				
3. Specific Gravity	1.0075			
4. Dissolved Solids		3,000		
5. Suspended Solids				
6. Anaerobic Bacterial Count	C/Ml			
7. Methyl Orange Alkalinity ($CaCO_3$)		220		
8. Bicarbonate (HCO_3)	HCO_3	268	÷61	4 HCO_3
9. Chlorides (Cl)	Cl	1,239	÷35.5	35 Cl
10. Sulfates (SO_4)	SO_4	40	÷48	1 SO_4
11. Calcium (Ca)	Ca	100	÷20	5 Ca
12. Magnesium (Mg)	Mg	30	÷12.2	2 Mg
13. Total Hardness ($CaCO_3$)		225		
14. Total Iron (Fe)		31		
15. Barium (Qualitative)		0		
16. Phosphate Residuals		4		

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

5	Ca	←	HCO_3	4
2	Mg	→	SO_4	1
33	Na	→	Cl	35

Compound	Equiv. Wt.	X Meq/l	= Mg/l
$Ca(HCO_3)_2$	81.04	4	324
$CaSO_4$	68.07	1	68
$CaCl_2$	55.50		
$Mg(HCO_3)_2$	73.17		
$MgSO_4$	60.19		
$MgCl_2$	47.62	2	95
$NaHCO_3$	84.00		
Na_2SO_4	71.03		
NaCl	58.46	33	1,929

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

REMARKS Resistivity = 1.62 Ohm Meters @ 71 ^0F

Uinta Research and Analytical Services
P.O. BOX 1488 — ROOSEVELT, UTAH 84066
ames F. Smith
(801) 722-2532

Crude Oil Analysis Report:

Company Name: Hill Gart Oper. Co
Sample Point: Fed 34-8
Field: _____
Depth: _____

Date Sampled: 5-1-85
Location: _____
County: _____
URAS Log Number: 0-998

Date: 5-1-85

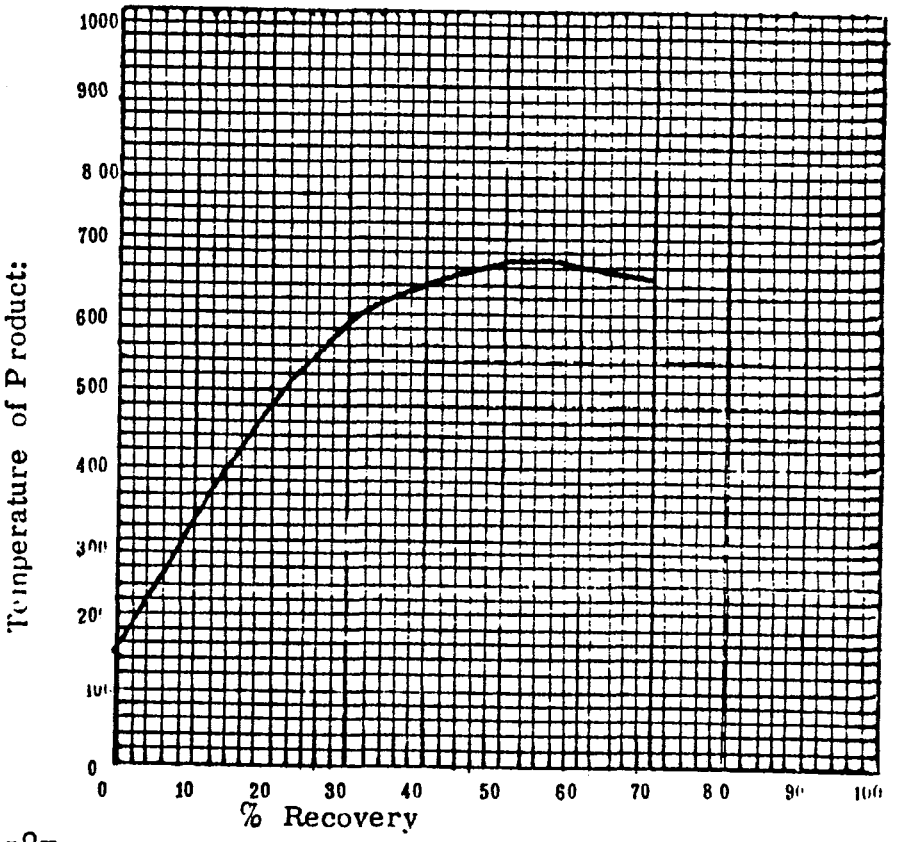
A.P.I. Gravity @ 60/60 f 34.1
145.2 Saybolt Sec. Vis at 140 °F
114.0 Saybolt Sec. Vis at 200 °F

B.S.W. % by Volume: 2.0

Metals:	PPM:

% Distillation:	°F
I.B.P.	156
5 %	
10	330
20	488
30	591
40	640
50	666
60	660
70	645
80	
90	
95	
End Point	666
% Recovery	73
% Residue	23
% Loss	4

Distillation Graph:



Comments: Pour Point = 95°F
Gasoline = 16% of Dist. Kerosene = 6% of Dist.
Diesel = 7 % of Dist. Heavy Ends = remainder of Dist.

Analysist: _____

Gas Chromatography | Hydrogen Sulfite | Oil Analysis | Well Meter Calibrations

SOONER CHEMICAL SPECIALTIES, INC.

P.O. Box 711 SEMINOLE, OKLAHOMA 74868 Phone (405) 382-2000
P.O. Box 696 GRAND JUNCTION, COLORADO 81502 Phone (303) 858-9765
P.O Box 1436 ROOSEVELT, UTAH 84066 Phone (801) 722-3386

WATER ANALYSIS REPORT

COMPANY Gavilan Petroleum S.O. Utah ADDRESS Roosevelt, Utah DATE: 12-5-85

SOURCE S.O. Utah 32-13 DATE SAMPLED _____ ANALYSIS NO. 1868

		Analysis	Mg/l (ppm)		*Meq/l	
1.	PH	6.4				
2.	H_2S (Qualitative)	None Detected				
3.	Specific Gravity	1.0650				
4.	Dissolved Solids		90,000			
5.	Suspended Solids					
6.	Anaerobic Bacterial Count	Initiated Culture C/Ml				
7.	Methyl Orange Alkalinity ($CaCO_3$)		680			
8.	Bicarbonate (HCO_3)		HCO_3 830	÷61	14	HCO_3
9.	Chlorides (Cl)		Cl 44,250	÷35.5	1,246	Cl
10.	Sulfates (SO_4)		SO_4 36,000	÷48	750	SO_4
11.	Calcium (Ca)		Ca 1,400	÷20	70	Ca
12.	Magnesium (Mg)		Mg 462	÷12.2	38	Mg
13.	Total Hardness ($CaCO_3$)		3,300			
14.	Total Iron (Fe)		28			
15.	Barium (Qualitative)		0			
16.	Phosphate Residuals					

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

70	Ca	←	HCO_3	14
38	Mg	→	SO_4	750
1,902	Na	→	Cl	1,246

Compound	Equiv. Wt.	X Meq/l	= Mg/l
$Ca(HCO_3)_2$	81.04	14	1,135
$CaSO_4$	68.07	56	3,812
$CaCl_2$	55.50		
$Mg(HCO_3)_2$	73.17		
$MgSO_4$	60.19	38	2,287
$MgCl_2$	47.62		
$NaHCO_3$	84.00		
Na_2SO_4	71.03	656	46,596
NaCl	58.46	1,246	72,841

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

REMARKS Resistivity = 0.101 Ohm Meters @ 68 °F

GAVILAN PETROLEUM, INC.
P.O. Box 6107
Salt Lake City, Utah 84106

1997 South 1100 East
Salt Lake City, Utah 84106
(801) 484-0942

December 11, 1985

United States Department Of
The Interior
Bureau Of Land Management
170 South 500 East
Vernal, Utah 84078

Re: Operations update on the following wells
located in the Eight Mile Flat Unit.

Lease Designation #U-16540
Federal 11-8
Federal 13-8
Federal 34-8
Lease Designation #U-18048
Federal 32-13
Federal 34-13

9 South 18 East
Uintah County

Gentlemen:

On September 1, 1985 S.O. Utah, Inc. released Hill-Hart Operating Company as Designated Operator (Contract Operator) for the above referenced wells. On September 1, 1985, S.O. Utah, Inc. became operator for the above referenced wells.

Between February 1, 1985 and September 1, 1985, Hill-Hart Operating Company completed Sundry Notices regarding non-compliance to federal regualtions on the above referenced wells. During this time frame work was performed in order to correct areas of non-compliance.

On approximately September 20, 1985, S.O. Utah, Inc. received files on the above referenced wells. Upon examining these files, we found no notice to your office of compliance.

At this time, S.O. Utah, Inc. would like to imform your office where compliance has been made on the above referenced wells.

GAVILAN PETROLEUM, INC.
P.O. Box 6107
Salt Lake City, Utah 84106

1997 South 1100 East
Salt Lake City, Utah 84106
(801) 484-0942

5

First, we would like to give the status of each well referenced above.

11-8 - Permission granted to temporarily abandon until March, 1986

13-8 - Producing Oil Well.

34-8 - Producing Oil Well.

32-13 - Producing Oil Well.

34-13 - Plugged, preparing to reclaim location.

Sign Variance Request - Compliance on 11-8,13-8,34-8, 32-13, and 34-13.
Signs have been changed from Uintah Management Corporation/ Quest Drilling and Exploration to S.O. Utah, Inc.

Hydrocarbons In Pit - Compliance on 13-8 and 34-8.

During the month of July, 1985, approximately 30 barrels of crude was recovered from the 13-8 pit and approximately 70 barrels from the 34-8 pit. We are happy to report these pits are free of removable crude.

The pits on the 11-8 and 32-13 contain recoverable crude at this time. We respectfully request permission to remove the crude from these pits no later then July 31, 1986.

Very little crude exists in the 34-13 pit as stated above, and we are currently preparing to reclaim this location as the well has been plugged.

GAVILAN PETROLEUM, INC.
P.O. Box 6107
Salt Lake City, Utah 84106

1997 South 1100 East
Salt Lake City, Utah 84106
(801) 484-0942

Test Frac Tanks On Location - Compliance on 13-8

Two frac tanks were removed from this location during the month of July, 1985.

Unauthorized Temporary Storage Of Rig - Compliance on 13-8.

Compliance has been made per the provisions provided by Mr. David Saupe, Acting Area Manager, in his letter dated April 4, 1985.

Run Off Diversion Trench - Compliance 11-8.

During a workover in March, 1985, run off water made operations difficult on location. A trench was excavated to divert water. This trench has been filled and compacted.

Deserving special attention is disposal of produced water. Sundry notices provided by Hill-Hart Operating Company addressed disposal methods by submitting an Oil Analysis showing BS&W percentages for each well, and requesting a pit liner waiver.

S.O. Utah, Inc., would like to apply for approval, disposal into unlined pits for the 13-8 and 34-8. Two of the three currently producing oil wells referenced above.

We justify our application for the 13-8 using requirements in section IV of regulation NTL-2B. The 13-8 currently produces 5 barrels of total fluid per day and has less than 5,000 ppm total dissolved solids on the enclosed water analysis report.

We justify our application for the 34-8 using requirement number 4 under Section IV of NTL-2B. This well does not produce five barrels of water per day. Current production is 10 barrels of total fluid per day. Our current Oil Analysis, enclosed, shows BS&W at 2% by volume. Also, no new zones have been opened since Hill-Hart Operating Company reported. For your information, a Water Analysis is enclosed for this well.

GAVILAN PETROLEUM, INC.
P.O. Box 6107
Salt Lake City, Utah 84106

1997 South 1100 East
Salt Lake City, Utah 84106
(801) 484-0942

Familiarizing ourselves with regulation NTL-2B, we realize the 32-13 is in Non-Compliance. After reworking this well in August, 1985, it began producing 250 barrels of water per day to the pit. Current water production is 50 barrels per day to the pit. We are transporting this water to Hansen's approved disposal pit located near Bridgeland, Utah.

Because this pit is not lined, we propose to immediately set a 400 barrel production tank for produced water. Water will be transported as above. We ask that this be approved as a disposal method. We will follow up with a Sundry Notice upon completing the work. Enclosed for your information is a Water Analysis for this well.

We respectfully request that this letter serve as notice for compliance as stated above and further serve as notice for methods of produced water.

Please feel confident that S.O. Utah, Inc. is taking all necessary steps to fully comply with all regulations. We sincerely appreciate your assistance and cooperation.

Very truly yours,

Scott J. Seeby
Operations Manager

SJS:jr

Enclosure

cc: Mr. Lee Sammis
Mr. Doug Thamer

Sooner Chemical Specialties Inc.
an affiliate of The PQ Corporation

P.O. Box 1028
Roosevelt Utah 84066
(801) 722-3386

12- 5-85

Gavilan Petroleum
S.O. Utah

Subject: Phosphate Residual - 32-13

32-13 = 9.0 ppm Phosphate (PO_4)

O.K. Spencer

Form OGC-1b

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

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

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 [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR
S.O. UTAH, INC.

3. ADDRESS OF OPERATOR
1344 W. HYWY. 40 VERNAL, UTAH 84078

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
1977' FEL, 660' FSL, of SECTION 8

RECEIVED
JUN 13 1986
DIVISION OF OIL, GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.
U-16540

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
N.A.

7. UNIT AGREEMENT NAME
EIGHT MILE FLAT UNIT

8. FARM OR LEASE NAME
S.O. UTAH

9. WELL NO.
34-8

10. FIELD AND POOL, OR WILDCAT
GREEN RIVER

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SW1/4 SE1/4 SEC.8
TWP 9S R18E SLB&M

12. COUNTY OR PARISH
UINTAH

13. STATE
UTAH

14. PERMIT NO.
U-080-4-M-264

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5056' RKB

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 PLANE	[ ]	(Other) Well Shut In			
(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.)*

Please be advised that the subject well has been shut in as of 4-11-86 due to economics.

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

SIGNED Scott J. Seay by JH TITLE Operations Manager DATE 6-12-86

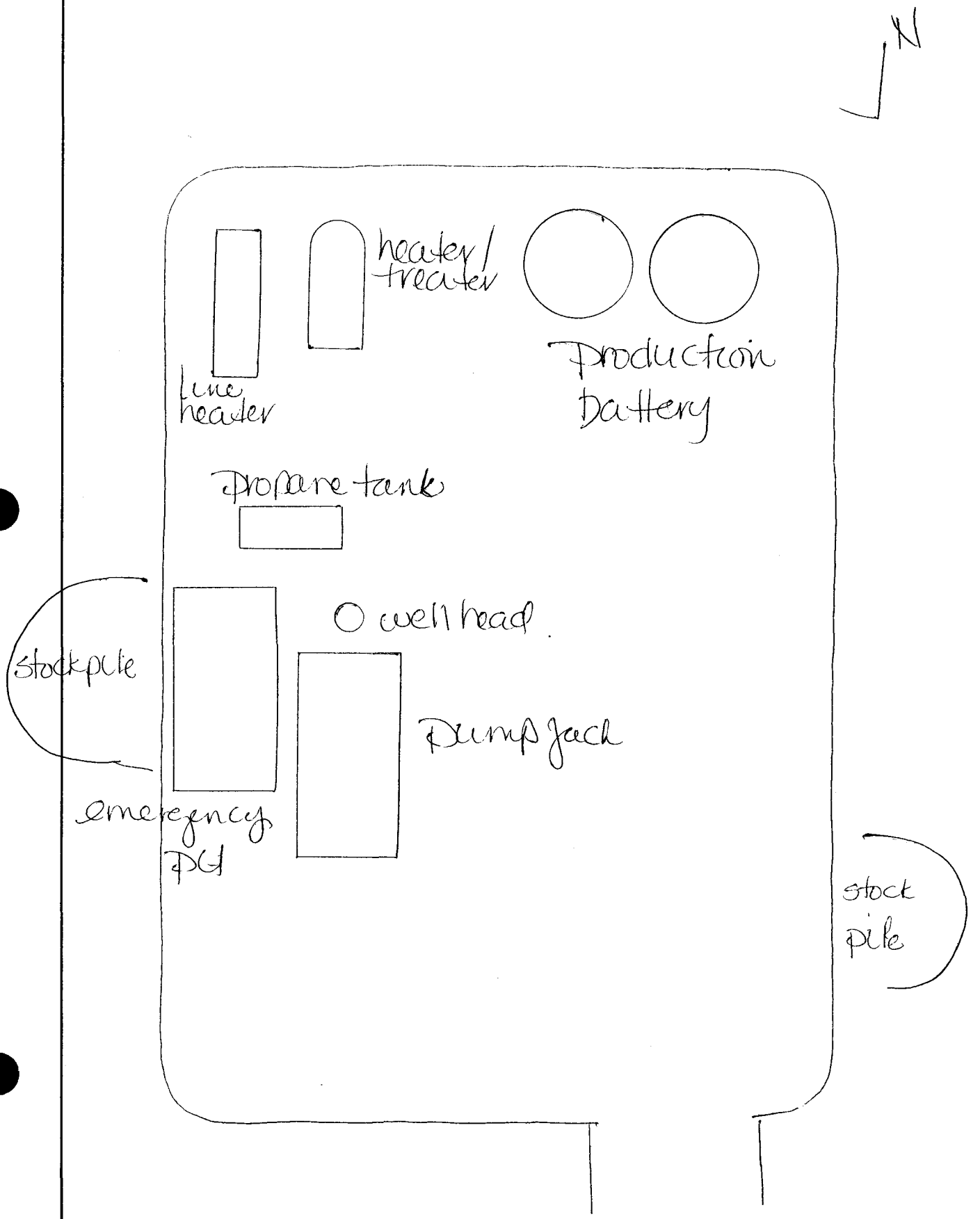
(This space for Federal or State office use)

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

*See Instructions on Reverse Side

31547

Myle Fed U 34-8 Sec 8 T9S R18E Bubbly 8/17/89



FORM 10

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
355 West North Temple, 3 Triad, Suite 350, Salt Lake City, UT 84180-1203

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS: Info. 1(303)555-1212 - No Listing

Rocky Mt. Operating Co. Inc
Edward Neibauer
3281 Cherryridge Road
Englewood, Colorado 80110

RECEIVED
APR 25 1994
DIV. OF OIL, GAS & MINING

UTAH ACCOUNT NUMBER: N9951

REPORT PERIOD (MONTH/YEAR): 3 / 94

AMENDED REPORT ☐ **(Highlight Changes)**

Well Name / API Number	Entity	Location	Producing Zone	Well Status	Days Oper	OIL(BBL)	GAS(MCF)	WATER(BBL)
EIGHT MILE FLAT UNIT 11-8 4304731545	10275	09S 18E 8	NWNW GRRV	SOW	0	U-16540	non unit	
#32-13 4304731277	10276	09S 18E 13	SWNE GRRV	SOW	0	U-18048	Unit well	
EIGHT MILE FLAT UNIT 34-8 4304731547	10972	09S 18E 8	SWSE GRRV	POW	31	U-16540 103	" 10,000	0
EIGHT MILE FLAT UNIT 13-8 4304731546	10975	09S 18E 8	NWSW GRRV	SOW	0	U-16540	non unit	
					TOTALS	103	10,000	0

Listed under SO Utah

15 HP
A-26-94

COMMENTS: #940502 So Utah 714-851-9503 "Janice" mailing info.
Eight mile Flat Unit - Cline 0 & G Co.

I hereby certify that this report is true and complete to the best of my knowledge.

Date: 04/21/94

Name and Signature: David Neibauer David Neibauer

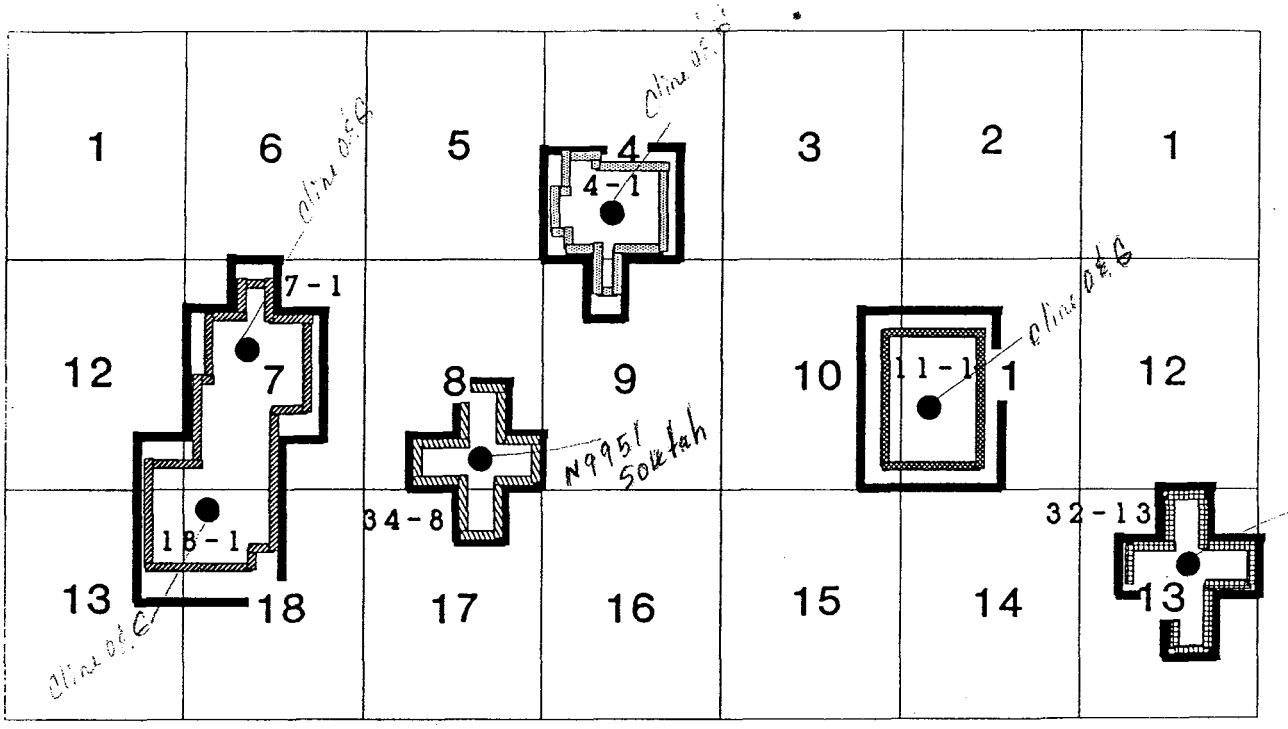
Telephone Number: (303)721-0922
IDS Tax & Services
(No knowledge of Rocky Mtn. Oper. Co. Inc. or Mr. Neibauer)

(12/93)

FORM=NR0001.FRM 12/13/

EIGHT MILE FLAT UNIT

Uintah County, Utah



17E 18E

UNIT OUTLINE (UTU63073X)

GREEN RIVER PA "A"

GREEN RIVER PA "B"

GREEN RIVER PA "C"

GREEN RIVER PA "D"

GREEN RIVER PA "E"

GRRV PA "A" ALLOCATION	GRRV PA "D" ALLOCATION
FEDERAL 100.00%	FEDERAL 100.00%
GRRV PA "B" ALLOCATION	**GRRV PA "E" ALLOCATION**
FEDERAL 100.00%	FEDERAL 100.00%
GRRV PA "C" ALLOCATION	
FEDERAL 100.00%	

AS CONTRACTED DECEMBER 23, 1986

May 2, 1994

DIVISION OF OIL GAS & MINING
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

ATTENTION: Ms. Lisha Cordova

Gentlemen:

Per our telephone conversation of this morning, enclosed please find a copy of the "Transfer of Operating Rights (Sublease) in a Lease for Oil and Gas or Geothermal Resources" for Lease Serial Nos. U-18048 and U-16540 respectively.

Please let me know if you need any additional information.

Yours truly,

Janice Rosenquist
Controller

JR/b

Enclosures

STATE OF UTAH)
)ss.
COUNTY OF SALT LAKE)

On this day of MAR 15 1994, before me appeared Robert Lopez, to me personally known, who being by me duly sworn did say that he is Chief of the Minerals Adjudication Section, Bureau of Land Management, and that the original of the foregoing instrument was signed on behalf of said Bureau, and that he acknowledged said instrument to be the free and voluntary act of said Bureau.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the month, day, and year first above written.

Notary Public
CHRISTOPHER J. MERRITT
324 South State #400
Salt Lake City, Utah 84111
My Commission Expires
December 27, 1997
State of Utah

Christopher J. Merritt
Notary Public

STATE OF UTAH)
)ss.
COUNTY OF SALT LAKE)

On this day of APR 1 1994, before me appeared Robert Lopez, to me personally known, who being by me duly sworn did say that he is Chief of the Minerals Adjudication Section, Bureau of Land Management, and that the original of the foregoing instrument was signed on behalf of said Bureau, and that he acknowledged said instrument to be the free and voluntary act of said Bureau.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the month, day, and year first above written.

Notary Public
CHRISTOPHER J. MERRITT
324 South State #400
Salt Lake City, Utah 84111
My Commission Expires
December 27, 1997
State of Utah

Christopher J. Merritt
Notary Public

Form 3000-3a
(October 1992)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0034
Expires: July 31, 1995

TRANSFER OF OPERATING RIGHTS (SUBLEASE) IN A LEASE FOR OIL AND GAS OR GEOTHERMAL RESOURCES

Lease Serial No.

U-16540

Mineral Leasing Act of 1920 (30 U.S.C. 181 et seq.)
Act for Acquired Lands of 1947 (30 U.S.C. 351-359)
Geothermal Steam Act of 1970 (30 U.S.C. 1001-1025)
Department of the Interior Appropriations Act, Fiscal Year 1981 (42 U.S.C. 6508)

Type or print plainly in ink and sign in ink.

PART A: TRANSFER

1. Transferee (Sublessee)* ROCKY MOUNTAIN OPERATING COMPANY, INC.
   Street 3281 Cherryridge Road
   City, State, ZIP Code Englewood, Colorado 80110

*If more than one transferee, check here ☐ and list the name(s) and address(es) of all additional transferees on the reverse of this form, or on a separate attached sheet of paper.

This transfer is for: *(Check one)* ☒ Oil and Gas Lease, or ☐ Geothermal Lease

Interest conveyed: *(Check one or both, as appropriate)* ☒ Operating Rights (sublease) ☐ Overriding Royalty, payment out of production or other similar interests or payments

94 MAR 10 AM 11:45
DEPT OF INTERIOR
BUR OF LAND MGMT
UTAH STATE OFFICE
RECEIVED
ACCOUNTS UNIT

2. This transfer (sublease) conveys the following interest:

Land Description	Percent of Interest			Percent of Overriding Royalty or Similar Interests	
Additional space on reverse, if needed. Do not submit documents or agreements other than this form; such documents or agreements shall only be referenced herein.	Owned	Conveyed	Retained	Reserved	Previously reserved or conveyed
a	b	c	d	e	f
See Exhibit A attached hereto for interests being conveyed hereby.				None	Those of record.
3. See Exhibit B attached hereto for additional provisions hereof.					

FOR BLM USE ONLY—DO NOT WRITE BELOW THIS LINE

THE UNITED STATES OF AMERICA

This transfer is approved solely for administrative purposes. Approval does not warrant that either party to this transfer holds legal or equitable title to this lease.

☒ Transfer approved effective APR 1 1994

By _____ (Authorized Officer)

Chief, Minerals Adjudication Section (Title)

MAR 15 1994 (Date)

PART B: CERTIFICATION AND REQUEST FOR APPROVAL

1. The transferor certifies as owner of an interest in the above designated lease that he/she hereby transfers to the above transferee(s) the rights specified above.

2. Transferee certifies as follows: (a) Transferee is a citizen of the United States; an association of such citizens; a municipality; or a corporation organized under the laws of the United States or of any State or territory thereof. For the transfer of NPR-A leases, transferee is a citizen, national, or resident alien of the United States or associations of such citizens, nationals, resident aliens or private, public or municipal corporations; (b) Transferee is not considered a minor under the laws of the State in which the lands covered by this transfer are located; (c) Transferee's chargeable interests, direct and indirect, in each public domain and acquired lands separately in the same State, do not exceed 246,080 acres in oil and gas leases (of which up to 200,000 acres may be in oil and gas options), or 300,000 acres in leases in each leasing District in Alaska of which up to 200,000 acres may be in options, if this is an oil and gas lease issued in accordance with the Mineral Leasing Act of 1920, or 51,200 acres in any one State if this is a geothermal lease; and (d) All parties holding an interest in the transfer are otherwise in compliance with the regulations (43 CFR Group 3100 or 3200) and the authorizing Acts; (e) Transferee is in compliance with reclamation requirements for all Federal oil and gas lease holdings as required by sec. 17(g) of the Mineral Leasing Act; and (f) Transferee is not in violation of sec. 41 of the Mineral Leasing Act.

3. Transferee's signature to this assignment constitutes acceptance of all applicable terms, conditions, stipulations and restrictions pertaining to the lease described herein. Applicable terms and conditions include, but are not limited to, an obligation to conduct all operations on the leasehold in accordance with the terms and conditions of the lease, to condition all wells for proper abandonment, to restore the leased lands upon completion of any operations as described in the lease, and to furnish and maintain such bond as may be required by the lessor pursuant to regulations 43 CFR 3104, 3134, or 3206.

For geothermal transfers, an overriding royalty may not be less than one-fourth (¼) of one percent of the value of output, nor greater than 50 percent of the rate of royalty due to the United States when this transfer is added to all previously created overriding royalties (43 CFR 3241).

I certify that the statements made herein by me are true, complete, and correct to the best of my knowledge and belief and are made in good faith.

Executed this 8th day of ~~February~~ March, 19 94

Name of Transferor 80 UTAH (Please type or print)

Transferor By Lee C. Bowman (Signature)
or General Partner

Attorney-in-fact _____ (Signature)

2010 Main Street, Suite 570 (Transferor's Address)

Irvine, California 92714 (City) (State) (Zip Code)

Executed this 8th day of MARCH, 19 94

ROCKY MOUNTAIN OPERATING COMPANY, INC.

Transferee By _____ (Signature)
or President

Attorney-in-fact _____ (Signature)

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 30 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management, (Alternate) Bureau Clearance Officer, (WO-771), 18 and C Streets, N.W., Washington, D.C. 20240, and the Office of Management and Budget, Paperwork Reduction Project (1004-0034), Washington, D.C. 20503.

Title 18 U.S.C. Sec. 1001 makes it a crime for any person knowingly and willfully to make to any Department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*U.S. GPO: 1992-774-017/67023

EXHIBIT A

(Attached to and made a part of Transfer of Operating Rights (Sublease) in a Lease for Oil and Gas in Respect of United States Oil and Gas Lease U-16540 executed by SO UTAH, a partnership, as Transferor, to ROCKY MOUNTAIN OPERATING COMPANY, INC., a corporation, as Transferee, under date of February ____, 1994.)

Tract No.	Description	Percentage of Interest Owned:	Conveyed:	Retained:
Tract I	Township 9 South, Range 18 East, S.L.M. Section 8: N½NW¼; From the surface of the earth to the stratigraphic equivalent of a depth of 6,090 feet as encountered in the Eight Mile Flat Unit #11-8 Well located in the NW¼NW¼ of said Section 8. Containing 80 acres in Uintah County, Utah.	100.00%	100.00%	None
Tract II	Township 9 South, Range 18 East, S.L.M. Section 8: W½SE¼; From the surface of the earth to the stratigraphic equivalent of a depth of 5,924 feet as encountered in the Eight Mile Flat Unit #34-8 Well located in the SW¼SE¼ of said Section 8. Containing 80 acres in Uintah County, Utah.	100.00%	100.00%	None
Tract III	Township 9 South, Range 18 East, S.L.M. Section 8: N½SW¼; From the surface of the earth to the stratigraphic equivalent of a depth of 5,932 feet as encountered in the Eight Mile Flat #13-8 Well located in the NW¼SW¼ of said Section 8. Containing 80 acres in Uintah County, Utah.	100.00%	100.00%	None

EXHIBIT B

(Attached to and made a part of Transfer of Operating Rights (Sublease) in a Lease for Oil and Gas in Respect of United States Oil and Gas Lease U-16540 executed by SO UTAH, a partnership, as Transferor, to ROCKY MOUNTAIN OPERATING COMPANY, INC., as Transferee, under date of ~~February~~ March 08, 1994.)

4. Notwithstanding anything to the contrary contained herein or any approval of this Transfer by the Utah State Office, Bureau of Land Management, this Transfer shall be effective as between the parties hereto as of December 1, 1993, at 7:00 A.M., local time.

5. This Transfer is made without warranties of title, express, implied, or statutory on the part of the Transferor.

6. The terms, provisions, and conditions of this Transfer shall inure to the benefit of and be binding upon the parties hereto, their legal representatives, successors, and assigns.

UTAH STATE OFFICE
RECEIVED
ACCOUNTS UNIT
94 MAR 10 AM 11:45
DEPT OF INTERIOR
BUR OF LAND MGMT

ACKNOWLEDGMENT

STATE OF Calif.)
: ss.
COUNTY OF Orange)

The foregoing instrument was acknowledged before me this 8th day of February, 1994, by Lee C. Sammis, as General Partner of SO UTAH, a partnership.

Linda C Gale
Notary Public

My commission expires:
Oct 3, 1994

Lee Sammis Associates

JUL 18

July 15, 1994

State of Utah
Division of Oil, Gas & Mining
9 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

RE: UTAH ACCOUNT NO. N9951, S O UTAH
MONTHLY OIL AND GAS PRODUCTION REPORT

Dear Sir or Madam:

Please be advised that we are in receipt of the above notice for June, 1994, and are no longer the owner of the wells described therein. We have been forwarding the monthly notices to the new lease holder and would appreciate your sending all future correspondence to him directly at the following address:

Mr. Ed Neibauer
ROCKY MOUNTAIN OPERATING CO., INC.
3281 Cherryridge Road
Englewood, CO 80110
(303) 762-0922

We no longer have any operating interests in the State of Utah and would appreciate being removed from your mailing lists. Thank you for your attention to this matter.

Sincerely,

LEE SAMMIS ASSOCIATES for
S O UTAH

Linda Gale

Linda C. Gale
Accountant

lg

cc: Mr. Ed Neibauer, ROCKY MOUNTAIN OPERATING CO., INC.

2010 Main Street • Suite 570 • Irvine, California 92714
714/851-9503 FAX 714/851-9510

AUG - 9 1994

DIV. OF OIL, GAS & MINING

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well
   [X] Oil Well [ ] Gas Well [ ] Other
2. Name of Operator
   Rocky Mountain Operating Company
3. Address and Telephone No.
   3281 Cherryridge Road Englewood, Colorado 80110
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

5. Lease Designation and Serial No.
6. If Indian, Allottee or Tribe Name
7. If Unit or CA, Agreement Designation
8. Well Name and No.
9. API Well No.
10. Field and Pool, or Exploratory Area
    Eight Mile Flat Area
11. County or Parish, State
    Uintah County, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[ ] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other Change of Operator	[ ] Dispose Water

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

13. 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.)*

1. Self-certification statement. Under the Federal regulations in effect as of June 15, 1988, designation of operator forms are no longer required when the operator is not the 100% record title holder. An operator is now required to submit a self-certification statement to the appropriate Bureau office stating that said operator has the right to operate upon the leasehold premises. Said notification may be in the following format:

"Please be advised that Rocky Mountain Operating Company is considered to be the operator of the wells as shown on EXHIBIT "A" and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by 0842

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

Signed _____ Title PRESIDENT Date JUNE 15, 1994

(This space for Federal or State office use)

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

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

ATTACHMENT 1.

EIGHT MILE FLAT UNIT WELLS

GREEN RIVER A PARTICIPATING AREA

11-1	NWSW	11 9S	18E	OSI	UTU15392

GREEN RIVER B PARTICIPATING AREA

18-1	NWNW	18 9S	18E	POW	UTU39714
7-1	SENW	7 9S	18E	POW	UTU16540

GREEN RIVER C PARTICIPATING AREA

4-1	SESW	4 9S	18E	POW	UTU17424

GREEN RIVER D PARTICIPATING AREA

32-13	SWNE	13 9S	18E	OSI	UTU18048

GREEN RIVER E PARTICIPATING AREA

34-8	SWSE	8 9S	18E	OSI	UTU16540

THE FOLLOWING WELLS WERE DETERMINED NON PAYING AND SUBSEQUENTLY CONTRACTED FROM THE EIGHT MILE FLAT UNIT AREA. THEY SHOULD NOT BE REPORTED ON THE PLAN OF DEVELOPMENT IN THE FUTURE.

3-1	SENE	3 9S	18E	TA	UTU16539
32-8	SWNE	8 9S	18E	POW	UTU16540*CLI
34-7	SWSE	7 9S	18E	POW	UTU16540*CLI
22-10	SENW	10 9S	18E	OSI	UTU17036
11-8	NWNW	8 9S	18E	OSI	UTU16540
13-8	NWSW	8 9S	18E	OSI	UTU16540

APRIL 1 1994

Authorized Officer
Bureau of Land Management

Re: Eight Mile Flat Unit
Uintah County, Utah

Gentlemen:

Enclosed for your consideration and approval, are four (4) copies of Resignation of Unit Operator and Designation of Successor Operator for the Eight Mile Flat Unit Area. The enclosed instrument has been executed by more than the required percentage of working interest owners pursuant to the Eight Mile Flat Unit and Unit Operating Agreements. All operations within the Eight Mile Flat Unit Agreement will be covered by bond no. 0842.

Sincerely,

Edward Neibauer

Enclosures

April 1 1994

Authorized Officer
Bureau of Land Management

Re: Eight Mile Flat Unit
Uintah County, Utah

Gentlemen:

Enclosed for your consideration and approval, are four (4) copies of Resignation of Unit Operator and Designation of Successor Operator for the Eight Mile Flat Unit Area.

Rocky Mountain Operating Co., as the designated successor operator under the Eight Mile Flat Unit Agreement, hereby certifies that the requisite approvals of the current working interest owners in the agreement have been obtained to satisfy the requirements for selection of a successor operator as set forth under the terms and provisions of the agreement. All operations within the Eight Mile Flat Unit Agreement will be covered by bond no. 0842

Sincerely,

Edward Neibauer

Enclosures

EIGHT MILE FLAT UNIT WELLS

GREEN RIVER A PARTICIPATING AREA

11-1	NWSW	11 9S	18E	OSI	UTU15392

GREEN RIVER B PARTICIPATING AREA

18-1	NWNW	18 9S	18E	POW	UTU39714
7-1	SENW	7 9S	18E	POW	UTU16540

GREEN RIVER C PARTICIPATING AREA

4-1	SESW	4 9S	18E	POW	UTU17424

GREEN RIVER D PARTICIPATING AREA

32-13	SWNE	13 9S	18E	OSI	UTU18048

GREEN RIVER E PARTICIPATING AREA

34-8	SWSE	8 9S	18E	OSI	UTU16540

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

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

October 28, 1994

Edward Neibauer
Rocky Mountain Operating Company, Inc.
3281 Cherryridge Road
Englewood, Colorado 80110

Re: Cline Oil and Gas Company & S O Utah to Rocky Mountain Operating Company, Inc.

Dear Mr. Neibauer:

In reviewing the operator change for the referenced companies, it was determined that your company is not currently registered with the Utah Department of Commerce. This letter is written to advise you of your responsibility to register your company with the state prior to conducting business within Utah. This can be accomplished by contacting:

Department of Commerce
Division of Corporations
160 East 300 South
Salt Lake City, Utah 84111
(801) 530-4849

Sincerely,

Lisha Cordova

Lisha Cordova
Admin. Analyst

cc: Dept. of Commerce
D.T. Staley
R.J. Firth
Operator File(s)
Correspondence File/ldc

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

Routing: LWP

1-LEC	7-SJ
2-DTS	8-FILE
3-VLC	
4-RJF	LWP
5-LEC	
6-PL	

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

XXX Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator ☐ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 4-1-94)

TO (new operator)	ROCKY MT OPERATING CO INC	FROM (former operator)	S O UTAH
(address)	3281 CHERRYRIDGE RD	(address)	2010 MAIN ST STE 570
	ENGLEWOOD CO 80110		IRVINE CA 92715
	EDWARD NEIBAUER		C/O SAMMIS & ASSOC.
	phone (303) 762-0922		phone (714) 851-9503
	account no. N 4890 (8-22-94)		account no. N 9951

Well(s) (attach additional page if needed): ***EIGHT MILE FLAT UNIT**

Name: *32-13/GRRV	API: 43-047-31277	Entity: 10276	Sec 13	Twp 9S	Rng 18E	Lease Type: U-18048
Name: *34-8/GRRV	API: (43-047-31547)	Entity: 10972	Sec 8	Twp 9S	Rng 18E	Lease Type: U-16540
Name: 11-8/GRRV	API: 43-047-31545	Entity: 10275	Sec 8	Twp 9S	Rng 18E	Lease Type: "
Name: 13-8/GRRV	API: 43-047-31546	Entity: 10975	Sec 8	Twp 9S	Rng 18E	Lease Type: "
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:

OPERATOR CHANGE DOCUMENTATION

LEC 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Rec'd "Transfer of Operating Rights" 5-4-94)

LEC 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Rec'd "Transfer of Operating Rights" 5-4-94) (Rec'd 8-9-94)

LEC 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) ____ If yes, show company file number: _____. (5-5-94) (8-3-94) (10-28-94 Ltr. mailed)

LEC 4. **(For Indian and Federal Wells ONLY)** The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.

LWP 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. 10-28-94

LWP 6. Cardex file has been updated for each well listed above. 10-31-94

LWP 7. Well file labels have been updated for each well listed above. 10-31-94

LEC 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (10-28-94)

LEC 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

– OVER –

OPERATOR CHANGE WORKSHEET (CONTINUED) Initial each item when completed. Write N/A if item is not applicable.

ENTITY REVIEW

Yes 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) ___ (If entity assignments were changed, attach copies of Form 6, Entity Action Form).

N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

N/A Yes 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.

___ 2. A copy of this form has been placed in the new and former operators' bond files.

___ 3. The former operator has requested a release of liability from their bond (yes/no) ___. Today's date _____ 19___. If yes, division response was made by letter dated _____ 19___.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

N/A 1. (Rule R615-2-10) The former operator/lessee of any **fee lease** well listed above has been notified by letter dated _____ 19___, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.

OTS 11/1/94

N/A 2. Copies of documents have been sent to State Lands for changes involving **State leases**.

FILMING

✓ 1. All attachments to this form have been microfilmed. Date: November 4 1994.

FILING

___ 1. Copies of all attachments to this form have been filed in each well file.

___ 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

941019 Bfm/S.L. Aprv. "Eight Mile Flat Unit" operator eff. 10-19-94.

941021 Bfm/Vernal Aprv. "Lease Base Wells".

FORM 9

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

FEB 13 1995

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: UTU-16540

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name: 891019635E

1. Type of Well: OIL [X] GAS [ ] OTHER:

8. Well Name and Number: Federal #34-8

2. Name of Operator: Rocky Mountain Operating Company, Inc.

9. API Well Number: 43-047-31547

3. Address and Telephone Number: 6131 S. Forest Ct., Littleton CO 80121 (303)850-7921

10. Field and Pool, or Wildcat: Eight Mile Flat Unit

4. Location of Well

Footages:

County: Uintah

QQ, Sec.,T.,R.,M.: SW SE Sec. 8, T9S, R18E

State: Utah

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

NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
[ ] Abandonment	[ ] New Construction	[ ] Abandonment *	[ ] New Construction
[ ] Casing Repair	[ ] Pull or Alter Casing	[ ] Casing Repair	[ ] Pull or Alter Casing
[ ] Change of Plans	[ ] Recompletion	[ ] Change of Plans	[ ] Shoot or Acidize
[ ] Conversion to Injection	[ ] Shoot or Acidize	[ ] Conversion to Injection	[ ] Vent or Flare
[ ] Fracture Treat	[ ] Vent or Flare	[ ] Fracture Treat	[ ] Water Shut-Off
[ ] Multiple Completion	[ ] Water Shut-Off	[X] Other Annual status report	
[ ] Other			

Approximate date work will start

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: Temporarily shut-in due to low oil prices and waiting on the field to be electrified to lower operating costs.

13.

Name & Signature: Edward Neibauer Title: President Date: 2-10-95

(This space for State use only)

(12\92)

(See Instructions on Reverse Side)

FORM 9

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number: UTU-16540

SUNDRY NOTICES AND REPORTS ON WELLS

6. If Indian, Allottee or Tribe Name:

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.

7. Unit Agreement Name: 891019635E

1. Type of Well: OIL [X] GAS [ ] OTHER:

8. Well Name and Number: Federal #34-8

2. Name of Operator: Rocky Mountain Operating Company, Inc.

9. API Well Number: #43-047-31547

3. Address and Telephone Number: 6131 S. Forest Ct., Littleton CO 80121 (303)850-7921

10. Field and Pool, or Wildcat: Eight Mile Flat

4. Location of Well

Footages:

County: Uintah

QQ, Sec.,T.,R.,M.: SW SE Sec. 8, T9S, R18E

State: Utah

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

NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
[ ] Abandonment	[ ] New Construction	[ ] Abandonment *	[ ] New Construction
[ ] Casing Repair	[ ] Pull or Alter Casing	[ ] Casing Repair	[ ] Pull or Alter Casing
[ ] Change of Plans	[ ] Recompletion	[ ] Change of Plans	[ ] Shoot or Acidize
[ ] Conversion to Injection	[ ] Shoot or Acidize	[ ] Conversion to Injection	[ ] Vent or Flare
[ ] Fracture Treat	[ ] Vent or Flare	[ ] Fracture Treat	[ ] Water Shut-Off
[ ] Multiple Completion	[ ] Water Shut-Off	[X] Other Annual Status Report	
[ ] Other			
Approximate date work will start		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: Temporarily shut-in due to low oil prices and waiting on the field to be electrified to lower operating costs.

13.

Name & Signature: Edward Neibauer Title: President Date: 2-8-96

(This space for State use only)

(12\92)

(See Instructions on Reverse Side)

FORM 9

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:

SUNDRY NOTICES AND REPORTS ON WELLS

6. If Indian, Allottee or Tribe Name:

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.

7. Unit Agreement Name: #891019635E

1. Type of Well: OIL [X] GAS [ ] OTHER:

8. Well Name and Number: Federal #34-8

2. Name of Operator: Rocky Mountain Operating Co., Inc.

9. API Well Number: #43-047-31547

3. Address and Telephone Number: 6111 S. Forest Ct., Littleton CO 80121 (303)850-7921

10. Field and Pool, or Wildcat: Eight Mile Flat

4. Location of Well

Footages:

QQ, Sec., T., R., M.: SW SE Sec. 8, T9S, R18E

County: Uintah

State: Utah

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

NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
[ ] Abandonment	[ ] New Construction	[ ] Abandonment *	[ ] New Construction
[ ] Casing Repair	[ ] Pull or Alter Casing	[ ] Casing Repair	[ ] Pull or Alter Casing
[ ] Change of Plans	[ ] Recompletion	[ ] Change of Plans	[ ] Shoot or Acidize
[ ] Conversion to Injection	[ ] Shoot or Acidize	[ ] Conversion to Injection	[ ] Vent or Flare
[ ] Fracture Treat	[ ] Vent or Flare	[ ] Fracture Treat	[ ] Water Shut-Off
[ ] Multiple Completion	[ ] Water Shut-Off	[X] Other Annual Status Report	
[ ] Other			

Approximate date work will start _____

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: Temporarily shut-in due to low oil prices. Also on the implementation of a water flood program.

13.

Name & Signature: Betty Neibauer Betty Neibauer Title: Secretary Date: 2-9-98

(This space for State use only)

RECEIVED FEB 17 1998 DIV. OF OIL, GAS & MINING

(See Instructions on Reverse Side)

(12\92)

FORM 9

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:

6. If Indian, Allottee or Tribe Name:

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.

7. Unit Agreement Name: #891019635E

1. Type of Well: OIL [X] GAS [ ] OTHER:

8. Well Name and Number: Federal #34-8

2. Name of Operator: Rocky Mountain Operating Company, Inc

9. API Well Number: #43-047-31547

3. Address and Telephone Number: 6111 S. Forest Ct., Littleton CO 80121 303-850-7921

10. Field and Pool, or Wildcat: Eight Mile Flat

4. Location of Well

Footages:

QQ, Sec.,T.,R.,M.: SW SE Sec. 8, T9S, R18E

County: Uintah

State: Utah

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

NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
[ ] Abandonment	[ ] New Construction	[ ] Abandonment *	[ ] New Construction
[ ] Casing Repair	[ ] Pull or Alter Casing	[ ] Casing Repair	[ ] Pull or Alter Casing
[ ] Change of Plans	[ ] Recompletion	[ ] Change of Plans	[ ] Shoot or Acidize
[ ] Conversion to Injection	[ ] Shoot or Acidize	[ ] Conversion to Injection	[ ] Vent or Flare
[ ] Fracture Treat	[ ] Vent or Flare	[ ] Fracture Treat	[ ] Water Shut-Off
[ ] Multiple Completion	[ ] Water Shut-Off	[X] Other Annual Status Report	
[ ] Other			

Approximate date work will start _____

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: Temporarily shut-in due to low oil prices.

13.

Name & Signature: Betty Neibauer Betty Neibauer Title: Agent Date: 2-8-99

(This space for State use only)

(12\92)

(See Instructions on Reverse Side)

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
UT-922

April 16, 2003

Inland Production Company
410 17th Street, Suite 700
Denver, Colorado 80202

Re: Eight Mile Flat Unit
Uintah County, Utah

Gentlemen:

On April 11, 2003, we received an indenture dated March 1, 2003, whereby Rocky Mountain Operating Company, Inc. resigned as Unit Operator and Inland Production Company was designated as Successor Unit Operator for the Eight Mile Flat Unit, Uintah 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 April 16, 2003. 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 Eight Mile Flat Unit Agreement.

Your statewide (Utah) oil and gas bond No. 0056 will be used to cover all operations within the Eight Mile Flat 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/ Robert A. Henricks

Robert A. Henricks
Chief, Branch of Fluid Minerals

Enclosure

bcc: Field Manager - Vernal (w/enclosure)
SITLA
Division of Oil, Gas & Mining
Minerals Adjudication Group
File - Eight Mile Flat Unit (w/enclosure)
Agr. Sec. Chron
Fluid Chron

UT922:TAThompson:tt:4/16/03

Results of query for MMS Account Number 891019635

Production	API Number	Operator	Well Name	Well Status	Lease or CA Number	Inspection Item	Township	Range	Section	Quarter/Quarter	Fie Nan
Production	4304731181	ROCKY MOUNTAIN OPERATING CO	4-1 HIKO BELL ✓	OSI	UTU17424	8910196350	9S	18E	4	SESW	8 MIL FLAT NO
Production	4304732653	ROCKY MOUNTAIN OPERATING CO	4-3 FEDERAL ✓	TA	UTU17424	8910196350	9S	18E	4	SWSW	8 MIL FLAT NOR
Production	4304732654	ROCKY MOUNTAIN OPERATING CO	4-2 FEDERAL ✓	OSI	UTU17424	8910196350	9S	18E	4	NESW	8 MIL FLAT NOR
Production	4304731029	ROCKY MOUNTAIN OPERATING CO	11-1 EIGHT MILE FLAT ✓	OSI	UTU15392	891019635A	9S	18E	11	NWSW	8 MIL FLAT NOR
Production	4304731126	ROCKY MOUNTAIN OPERATING CO	7-1 EIGHT MILE FLAT ✓	TA	UTU16540	891019635B	9S	18E	7	SENW	8 MIL FLAT NOR
Production	4304731142	ROCKY MOUNTAIN OPERATING CO	18-1 EIGHT MILE FLAT ✓	OSI	UTU39714	891019635B	9S	18E	18	NWNW	8 MIL FLAT NOR

Production	4304731277	ROCKY MOUNTAIN OPERATING CO	32-13 EIGHT MILE ✓	OSI	UTU18048	891019635D	9S	18E	13	SWNE	8 MI FLAT NOR
Production	4304731547	ROCKY MOUNTAIN OPERATING CO	34-8 EIGHT MILE FLAT ✓	OSI	UTU16540	891019635E	9S	18E	8	SWSE	8 MI FLAT NOR

DISCLAIMER for online data: No warranty is made by the BLM for use of the data for purposes not intended by the BLM.

FORM 9

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

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-16540

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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:

7. UNIT or CA AGREEMENT NAME: Eight Mile Flat Unit

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER

8. WELL NAME and NUMBER: 34-8

2. NAME OF OPERATOR: Inland Production Company

9. API NUMBER: 4304731547

3. ADDRESS OF OPERATOR: 410 17th St. CITY Denver STATE Co ZIP 80202

PHONE NUMBER: (303) 893-0102

10. FIELD AND POOL, OR WILDCAT: Monument Butte

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 660' FSL & 1977' FEL

COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 8 9s 18e

STATE: UTAH

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

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

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

Effective March 1, 2003, Inland Production Company has taken over operations of the above referenced well. The previous operator was:

Rocky Mountain Operating Company
6131 S. Forest Ct.
Littleton, Colorado 80121

Effective March 1, 2003, Inland Production Company is responsible under the terms and conditions of the leases for operations of the leased lands or a portion thereof under Federal Bond #UT-0056.

Rocky Mountain Operating Company

Name:_____ Title:_____

Signature:_____ Date:_____

NAME (PLEASE PRINT) Brian Harris TITLE Engineering Technician

SIGNATURE Brian Harris DATE 3/12/2003

(This space for State use only)

RECEIVED
APR 25 2003
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name: 891019635E

8. Well Name and Number: Federal #34-8

9. API Well Number: 43-047-31547

10. Field and Pool, or Wildcat: Eight Mile Flat

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.

1. Type of Well: OIL [X] GAS [ ] OTHER:

2. Name of Operator: Rocky Mountain Operating Company, Inc.

3. Address and Telephone Number: 6111 S. Forest Ct., Littleton CO 80121 303-850-7921

4. Location of Well

Footages:

County: Uintah

QQ, Sec., T., R., M.: SWSE Sec. 8, T9S, R18E

State: Utah

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

NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
[ ] Abandon	[ ] New Construction	[ ] Abandon *	[ ] New Construction
[ ] Repair Casing	[ ] Pull or Alter Casing	[ ] Repair Casing	[ ] Pull or Alter Casing
[ ] Change of Plans	[ ] Recomplete	[ ] Change of Plans	[ ] Reperforate
[ ] Convert to Injection	[ ] Reperforate	[ ] Convert to Injection	[ ] Vent or Flare
[ ] Fracture Treat or Acidize	[ ] Vent or Flare	[ ] Fracture Treat or Acidize	[ ] Water Shut-Off
[ ] Multiple Completion	[ ] Water Shut-Off	[ ] Other	
[X] Other Change of Operator			
Approximate date work will start		Date of work completion	

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT 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.)

Effective 3-1-03 Rocky Mountain Operating COmpany, Inc. is no longer operator of this lease. The new operator is:

Inland Production Company
410 17th Street
Suite 700
Denver CO 80202
303-893-0102

13.

Name & Signature: Betty Neibauer Title: Agent Date: 4-7-03

(This space for State use only)

RECEIVED
MAY 12 2003
DIV. OF OIL, GAS & MINING

(4/94) (See Instructions on Reverse Side)

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. GLH
2. CDW
3. FILE

X Change of Operator (Well Sold) Designation of Agent/Operator

Operator Name Change Merger

The operator of the well(s) listed below has changed, effective: **03/01/2003**

FROM: (Old Operator):	**TO:** (New Operator):
Rocky Mountain Operating Company, Inc.	Inland Production Company
6111 S Forest Court	410 17th St., Suite 700
Littleton, CO 80121	Denver, CO 80202
Phone: 1-(303) 850-7921	Phone: 1-(303) 893-0102
Account No. N4890	Account No. N5160

CA No. **Unit:** **Eight Mile Flat**

WELL(S)

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
FEDERAL 12-11-9-18	11	090S	180E	4304731029	10970	Federal	OW	S
FEDERAL 6-7-9-18	07	090S	180E	4304731126	10969	Federal	OW	S
FEDERAL 8-3-9-18	03	090S	180E	4304731127	570	Federal	OW	S
FEDERAL 4-18-9-18	18	090S	180E	4304731142	10969	Federal	OW	S
FEDERAL 14-4-9-18	04	090S	180E	4304731181	10971	Federal	OW	S
FEDERAL 15-7-9-18	07	090S	180E	4304731202	564	Federal	OW	S
32-13	13	090S	180E	4304731277	10276	Federal	OW	S
EIGHT MILE FLAT UNIT 34-8	08	090S	180E	4304731547	10972	Federal	OW	S
FEDERAL 13-4-9-18	04	090S	180E	4304732653	10971	Federal	OW	S
FEDERAL 11-4-9-18	04	090S	180E	4304732654	10971	Federal	OW	S
NOT UNIT WELLS								
FEDERAL 6-10-9-18	10	090S	180E	4304731214	10973	Federal	OW	S
FEDERAL 7-8-9-18	08	090S	180E	4304731274	554	Federal	OW	S

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: 05/12/2003

2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 04/25/2003

3. The new company has been checked through the **Department of Commerce, Division of Corporations Database on:** 06/27/2003

4. Is the new operator registered in the State of Utah: YES Business Number: 755627-0143

5. If **NO**, the operator was contacted 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: BLM 04/16/2003 BIA n/a

8. **Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: 04/16/2003

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:** 06/27/2003
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 06/27/2003
3. Bond information entered in RBDMS on: n/a
4. Fee wells attached to bond 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: UT-0056

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 n/a
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:

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

5. LEASE DESIGNATION AND SERIAL NUMBER:
U16540

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER	8. WELL NAME and NUMBER: FEDERAL 15-8-9-18
2. NAME OF OPERATOR: Inland Production Company	9. API NUMBER: 4304731547
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER 435.646.3721	10. FIELD AND POOL, OR WILDCAT: Monument Butte

4. LOCATION OF WELL:

FOOTAGES AT SURFACE: 1977 FEL, 660 FSL — COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SW/SE, 8, T9S, R18E — STATE: Utah

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

TYPE OF SUBMISSION	TYPE OF ACTION		
[X] NOTICE OF INTENT (Submit in Duplicate)	[ ] ACIDIZE	[ ] DEEPEN	[ ] REPERFORATE CURRENT FORMATION
Approximate date work will	[ ] ALTER CASING	[ ] FRACTURE TREAT	[ ] SIDETRACK TO REPAIR WELL
08/05/2004	[ ] CASING REPAIR	[ ] NEW CONSTRUCTION	[ ] TEMPORARITLY ABANDON
	[ ] CHANGE TO PREVIOUS PLANS	[ ] OPERATOR CHANGE	[ ] TUBING REPAIR
	[ ] CHANGE TUBING	[ ] PLUG AND ABANDON	[ ] VENT OR FLAIR
[ ] SUBSEQUENT REPORT (Submit Original Form Only)	[X] CHANGE WELL NAME	[ ] PLUG BACK	[ ] WATER DISPOSAL
Date of Work Completion:	[ ] CHANGE WELL STATUS	[ ] PRODUCTION (START/STOP)	[ ] WATER SHUT-OFF
	[ ] COMMINGLE PRODUCING FORMATIONS	[ ] RECLAMATION OF WELL SITE	[ ] OTHER: -
	[ ] CONVERT WELL TYPE	[ ] RECOMPLETE - DIFFERENT FORMATION	

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

Inland Production Company is requesting a change of name on this well from the Eight Mile Flat Unit 34-8 to the Federal 15-8-9-18.

NAME (PLEASE Brian Harris — TITLE Engineering Technici

SIGNATURE Brian Harris — DATE August 05, 2004

(This space for State use only)

RECEIVED
AUG 16 2004
DIV. OF OIL, GAS & MINING

Corporations Section
P.O.Box 13697
Austin, Texas 78711-3697

Geoffrey S. Connor
Secretary of State

Office of the Secretary of State

The undersigned, as Secretary of State of Texas, does hereby certify that the attached is a true and correct copy of each document on file in this office as described below:

Newfield Production Company
Filing Number: 41530400

Articles of Amendment September 02, 2004

In testimony whereof, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in Austin, Texas on September 10, 2004.

Secretary of State

ARTICLES OF AMENDMENT
TO THE
ARTICLES OF INCORPORATION
OF
INLAND PRODUCTION COMPANY

FILED
In the Office of the
Secretary of State of Texas
SEP 02 2004
Corporations Section

Pursuant to the provisions of Article 4.04 of the Texas Business Corporation Act (the "TBCA"), the undersigned corporation adopts the following articles of amendment to the articles of incorporation:

ARTICLE 1 – Name

The name of the corporation is Inland Production Company.

ARTICLE 2 – Amended Name

The following amendment to the Articles of Incorporation was approved by the Board of Directors and adopted by the shareholders of the corporation on August 27, 2004.

The amendment alters or changes Article One of the Articles of Incorporation to change the name of the corporation so that, as amended, Article One shall read in its entirety as follows:

"ARTICLE ONE – The name of the corporation is Newfield Production Company."

ARTICLE 3 – Effective Date of Filing

This document will become effective upon filing.

The holder of all of the shares outstanding and entitled to vote on said amendment has signed a consent in writing pursuant to Article 9.10 of the TBCA, adopting said amendment, and any written notice required has been given.

IN WITNESS WHEREOF, the undersigned corporation has executed these Articles of Amendment as of the 1st day of September, 2004.

INLAND RESOURCES INC.

By: Susan G. Riggs
Susan G. Riggs, Treasurer

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155
http://www.blm.gov

TAKE PRIDE IN AMERICA

IN REPLY REFER TO:
3106
(UT-924)

September 16, 2004

Memorandum

To: Vernal Field Office

From: Acting Chief, Branch of Fluid Minerals

Subject: Merger Approval

Attached is an approved copy of the name change recognized by the Utah State Office. We have updated our records to reflect the merger from Inland Production Company into Newfield Production Company on September 2, 2004.

Michael L Coulthard

Michael Coulthard
Acting Chief, Branch of
Fluid Minerals

Enclosure
1. State of Texas Certificate of Registration

cc: MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225
State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114
Teresa Thompson
Joe Incardine
Connie Seare

UTSL-

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UTU-

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035521A
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058149
063597A
075174
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10760
11385
13905
15392
15855
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16539
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17036
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72613A
73520X
74477X
75023X
76189X
76331X
76788X
77098X
77107X
77236X
77376X
78560X
79485X
79641X
80207X
81307X

Division of Oil, Gas and Mining

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: **9/1/2004**

FROM: (Old Operator):	**TO:** (New Operator):
N5160-Inland Production Company	N2695-Newfield Production Company
Route 3 Box 3630	Route 3 Box 3630
Myton, UT 84052	Myton, UT 84052
Phone: 1-(435) 646-3721	Phone: 1-(435) 646-3721

CA No. **Unit:**

WELL(S)

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS	
REX LAMB 34-1	34	040S	010E	4304731528	9690	Fee	OW	P	
REX LAMB 34-2	34	040S	010E	4304731692	9691	Fee	OW	P	
MONUMENT FED 13-25	25	080S	170E	4304732527	11835	Federal	NA	PA	K
FEDERAL #23-26	26	080S	180E	4304732080	11265	Federal	OW	P	
PARIETTE FED 10-29	29	080S	180E	4304731464	1428	Federal	OW	P	
W PARIETTE FED 6-29	29	080S	180E	4304731550	10975	Federal	OW	P	
FEDERAL 44-29	29	080S	180E	4304732079	11267	Federal	OW	S	
STATE 31-32	32	080S	180E	4304732500	11645	State	OW	S	
FEDERAL 12-34	34	080S	180E	4304732077	11276	Federal	OW	S	
GULF STATE 36-12	36	080S	180E	4304731864	11002	State	OW	S	
GULF STATE 36-22	36	080S	180E	4304731892	11095	State	OW	P	
UTD STATE 36-K	36	080S	180E	4304732580	11752	State	OW	S	
UTD STATE 36-M	36	080S	180E	4304732581	11749	State	OW	S	
WILDROSE FEDERAL 31-1	31	080S	190E	4304731415	9535	Federal	OW	TA	
FEDERAL 44-14Y	14	090S	170E	4304732438	11506	Federal	OW	P	
21BALCRON FED 31-5Y	05	090S	180E	4304732503	11680	Federal	OW	S	
FEDERAL 15-8-9-18	08	090S	180E	4304731547	10275	Federal	OW	S	
BALCRON FED 41-19Y	19	090S	180E	4304732504	11651	Federal	OW	P	
UTD CHASEL 24-14	24	090S	180E	4304732566	11798	Federal	OW	S	
FEDERAL 41-29	29	090S	180E	4304732495	11646	Federal	OW	S	

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: 9/15/2004
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/15/2004

3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 2/23/2005
4. Is the new operator registered in the State of Utah: YES Business Number: 755627-0143
5. If **NO**, the operator was contacted contacted on:

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

6b. Inspections of LA PA state/fee well sites complete on: waived

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: BLM BIA

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: na/

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: 2/23/2005

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 2/28/2005
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 2/28/2005
3. Bond information entered in RBDMS on: 2/28/2005
4. Fee/State wells attached to bond in RBDMS on: 2/28/2005
5. Injection Projects to new operator in RBDMS on: 2/28/2005
6. Receipt of Acceptance of Drilling Procedures for APD/New on: waived

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: UT 0056

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: 61BSBDH2912

FEE & STATE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 61BSBDH2919

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 changed operator name from Inland Production Company to Newfield Production Company - **received 2/23/05**

United States Department of the Interior

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

TAKE PRIDE IN AMERICA

IN REPLY REFER TO
3180
UT-922

June 30, 2005

Newfield Production Company
Attn: Kelly L. Donohoue
1401 Seventeenth Street, Suite 1000
Denver, Colorado 80202

Gentlemen:

The Sundance (Green River) Unit Agreement, Uintah County, Utah, was approved June 30, 2005. This agreement has been designated No. UTU82472X, and is effective July 1, 2005. The unit area embraces 11,143.86 acres, more or less.

Pursuant to regulations issued and effective June 17, 1988, all operations within the Sundance (Green River) Unit will be covered by your nationwide (Utah) oil and gas bond No. 0056.

The following leases embrace lands included within the unit area:

UTU0075174	UTU39713	UTU65970*	UTU79013*
UTU16539*	UTU39714	UTU74404	UTU79014*
UTU16540	UTU44429	UTU74835	UTU80915
UTU17424*	UTU64806*	UTU74872*	UTU82205
UTU18043	UTU65969	UTU75234	

* Indicates lease to be considered for segregation by the Bureau of Land Management pursuant to Section 18 (g) of the unit agreement and Public Law 86-705.

All lands and interests by State of Utah, Cause No. 228-08 are fully committed. Docket No. 2005-009

Approval of this agreement does not warrant or certify that the operator thereof and other holders of operating rights hold legal or equitable title to those rights in the subject leases which are committed hereto.

We are of the opinion that the agreement is necessary and advisable in the public interest and for the purpose of more properly conserving natural resources. Certification-Determination, signed by the School and Institutional Trust Land Administration for the State of Utah, is attached to the enclosed agreement. We request that you furnish the State of Utah and all other interested principals with appropriate evidence of this approval.

Sincerely,

/s/ Terry Catlin

Terry Catlin
Acting Chief, Branch of Fluid Minerals

Enclosure

bcc: Mary Higgins w/enclosure
MMS - Data Management Division (Attn: James Sykes)
Trust Lands Administration
Division of Oil, Gas and Mining
Field Manager - Vernal w/enclosure
File - Sundance (Green River) Unit w/enclosure
Agr. Sec. Chron
Fluid Chron
Central Files

UT922:TAThompson:tt:06/30/2005

Entity Form 6

"C" Change from one existing entity to another existing entity

API	Well	Sec	Twsp	Rng	Entity	Entity Eff Date
4304734937	FEDERAL 14-6-9-18	06	090S	180E	14064 to 14844	9/20/2005
4304735183	FEDERAL 9-6-9-18	06	090S	180E	14153 to 14844	9/20/2005
4304735184	FEDERAL 11-6-9-18	06	090S	180E	14127 to 14844	9/20/2005
4304735185	FEDERAL 15-6-9-18	06	090S	180E	14120 to 14844	9/20/2005
4304735751	FEDERAL 16-6-9-18	06	090S	180E	14623 to 14844	9/20/2005
4304735752	FEDERAL 12-6-9-18	06	090S	180E	14649 to 14844	9/20/2005
4304735753	FEDERAL 10-6-9-18	06	090S	180E	14622 to 14844	9/20/2005
4304731126	FEDERAL 6-7-9-18	07	090S	180E	14599 to 14844	9/20/2005
4304731202	FEDERAL 15-7-9-18	07	090S	180E	564 to 14844	9/20/2005
4304735448	FEDERAL 3-7-9-18	07	090S	180E	14661 to 14844	9/20/2005
4304735449	FEDERAL 5-7-9-18	07	090S	180E	14662 to 14844	9/20/2005
4304735451	FEDERAL 11-7-9-18	07	090S	180E	14768 to 14844	9/20/2005
4304735452	FEDERAL 13-7-9-18	07	090S	180E	14755 to 14844	9/20/2005
4304735454	FEDERAL 14-7-9-18	07	090S	180E	14767 to 14844	9/20/2005
4304735503	FEDERAL 12-7-9-18	07	090S	180E	14663 to 14844	9/20/2005
4304731274	FEDERAL 7-8-9-18	08	090S	180E	554 to 14844	9/20/2005
4304731545	FEDERAL 4-8-9-18	08	090S	180E	10275 to 14844	9/20/2005
4304731546	FEDERAL 12-8-9-18	08	090S	180E	10975 to 14844	9/20/2005
4304731547	FEDERAL 15-8-9-18	08	090S	180E	10972 to 14844	9/20/2005
4304735811	STATE 1-16-9-18	16	090S	180E	14390 to 14844	9/20/2005
4304735813	STATE 3-16-9-18	16	090S	180E	14565 to 14844	9/20/2005
4304735819	STATE 9-16-9-18	16	090S	180E	14566 to 14844	9/20/2005
4304735822	STATE 11-16-9-18	16	090S	180E	14577 to 14844	9/20/2005
4304731142	FEDERAL 4-18-9-18	18	090S	180E	14600 to 14844	9/20/2005

FORM 3160-5
(September 2001)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires January 31,2004

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630
Myton, UT 84052

3b. Phone *(include are code)*
435.646.3721

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
660 FSL 1977 FEL

SWSE Section 8 T9S R18E

5. Lease Serial No.
USA UTU-16540

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or
SUNDANCE UNIT

8. Well Name and No.
FEDERAL 15-8-9-18

9. API Well No.
4304731547

10. Field and Pool, or Exploratory Area
MONUMENT BUTTE

11. County or Parish, State
UINTAH, UT

12. CHECK APPROPRIATE BOX(ES) TO INIDICATE NATURE OF NOTICE, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production(Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug & Abandon	☒ Temporarily Abandon	
	☐ Convert to	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Newfield requests a change of status to TA this well. Newfield plans to Re-Complete this well in the near future in the following intervals.
Re-frac or acidize:
CP1 & CP2, CP4 & CP5.

Accepted by the
Utah Division of
Oil, Gas and Mining
For Record Only

I hereby certify that the foregoing is true and correct *(Printed/ Typed)*
Kathy Chapman

Title
Office Manager

Signature

Date
01/30/2008

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

RECEIVED
FEB 0 6 2008
DIV. OF OIL, GAS & MINING

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8
1595 WYNKOOP STREET
DENVER, CO 80202-1129
http://www.epa.gov/region8

JAN 13 2009

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Eric Sundberg
Newfield Production Company
1001 Seventeenth Street, Suite 2000
Denver, CO 80202

Re: Final Permit
AOR Corrective Action
CBL Required Prior to Injection
EPA UIC Permit UT21149-07848
Federal 15-8-9-18
SW SE Sec. 8-T9S-R18E
Uintah County, Utah
API No.: 43-047-31547
9S 18E 8

Dear Mr. Sundberg:

Enclosed is your copy of the FINAL Underground Injection Control (UIC) Permit for the proposed Federal 15-8-9-18 injection well. A Statement of Basis that discusses the conditions and requirements of this EPA UIC Permit, is also included.

The Public Comment period for this Permit ended on JAN 01 2009. No comments on the Draft Permit were received during the Public Notice period. EPA made minor corrections to Appendix B of the Draft Permit to remove unnecessary and duplicative testing requirements; therefore, the Effective Date for this EPA UIC Permit is 30 days after the date of issuance. All conditions set forth herein refer to Title 40 Parts 124, 144, 146, and 147 of the Code of Federal Regulations (CFR) and are regulations that are in effect as of the Effective Date of this Permit.

Please note that under the terms and conditions of this Final Permit you are authorized only to construct the proposed injection well. Prior to commencing injection, you first must fulfill all "Prior to Commencing Injection" requirements of the Final Permit, Part II Section C.1, and obtain written Authorization to Inject from the EPA. It is your responsibility to be familiar with and to comply with all provisions of your Final Permit. The EPA forms referenced in the permit are available at http://www.epa.gov/safewater/uic/reportingforms.html. Guidance documents for Cement Bond Logging, Radioactive Tracer testing, Step Rate testing, Mechanical Integrity demonstration, Procedure in the Event of a Mechanical Integrity Loss, and other UIC guidances, are available at http://www.epa.gov/region8/water/uic/ deep_injection.html. Upon request, hard copies of the EPA forms and guidances can be provided.

This EPA UIC Permit is issued for the operating life of the well unless terminated (Part III, Section B). The EPA may review this Permit at least every five (5) years to determine whether any action is warranted pursuant to 40 CFR § 144.36(a).

If you have any questions on the enclosed Final Permit or Statement of Basis, please call Emmett Schmitz of my staff at (303) 312-6174, or toll-free at (800) 227-8917, ext. 312-6174.

Sincerely,

Eddie A. Sierra
Acting Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

enclosure: Final UIC Permit
Statement of Basis

cc: Letter only:

Uintah & Ouray Business Committee, Ute Indian Tribe:
Curtis Cesspooch, Chairman
Irene Cuch, Vice-Chairwoman
Frances Poowegup, Councilwoman
Ronald Groves, Councilman
Phillip Chimburas, Councilman
Steven Cesspooch, Councilman

Daniel Picard, Superintendent
Uintah & Ouray Indian Agency
U.S. Bureau of Indian Affairs

cc: all enclosures:

Michael Guinn
District Manager
Newfield Production Company
Myton, Utah

Larry Love
Director
Energy & Minerals Dept.
Ute Indian Tribe

Michelle Sabori
Enviromental Director
GAP - 160
Ute Indian Tribe

Elaine Willie
Gap Coordinatorr
Ute Indian Tribe

Gilbert Hunt
Associate Director
State of Utah - Natural Resources

Fluid Minerals Engineering Dept.
U.S. Bureau of Land Management
Vernal, Utah

EPA

UNDERGROUND INJECTION CONTROL PROGRAM

PERMIT

PREPARED: January 2009

Permit No. UT21149-07848

Class II Enhanced Oil Recovery Injection Well

Federal 15-8-9-18
Uintah County, UT

Issued To

Newfield Production Company
1001 Seventeenth Street, Suite 2000
Denver, CO 80202

Part I. AUTHORIZATION TO CONSTRUCT AND OPERATE

Under the authority of the Safe Drinking Water Act and Underground Injection Control (UIC) Program regulations of the U. S. Environmental Protection Agency (EPA) codified at Title 40 of the Code of Federal Regulations (40 CFR) Parts 2, 124, 144, 146, and 147, and according to the terms of this Permit,

Newfield Production Company
1001 Seventeenth Street, Suite 2000
Denver, CO 80202

is authorized to construct and to operate the following Class II injection well or wells:

Federal 15-8-9-18
660'FSL; 1977'FEL., SWSE S8, T9S, R18E
Uintah County, UT

EPA regulates the injection of fluids into injection wells so that injection does not endanger underground sources of drinking water (USDWs). EPA UIC Permit conditions are based on authorities set forth at 40 CFR Parts 144 and 146, and address potential impacts to USDWs.

Under 40 CFR Part 144, Subpart D, certain conditions apply to all UIC Permits and may be incorporated either expressly or by reference. General permit conditions for which the content is mandatory and not subject to site-specific differences are not discussed in this document. Issuance of this Permit does not convey any property rights of any sort or any exclusive privilege, nor does it authorize injury to persons or property or invasion of other private rights, or any infringement of other Federal, State or local laws or regulations. (40 CFR §144.35) An EPA UIC Permit may be issued for the operating life of the injection well or project unless terminated for reasonable cause under 40 CFR §§144.39, 144.40 and 144.41, and may be reviewed at least once every five (5) years to determine if action is required under 40 CFR §144.36(a).

This Permit is issued for the life of the well(s) unless modified, revoked and reissued, or terminated under 40 CFR 144.39 or 144.40. This EPA Permit may be adopted, modified, revoked and reissued, or terminated if primary enforcement authority for a UIC Program is delegated to an Indian Tribe or State. Upon the effective date of delegation, reports, notifications, questions and other correspondence should be directed to the Indian Tribe or State Director.

Issue Date: JAN 13 2009 Effective Date FEB 13 2009

Eddie A. Sierra
Acting Assistant Regional Administrator*
Office of Partnerships and Regulatory Assistance

*NOTE: The person holding this title is referred to as the "Director" throughout this Permit.

PART II. SPECIFIC PERMIT CONDITIONS

Section A. WELL CONSTRUCTION REQUIREMENTS

These requirements represent the approved minimum construction standards for well casing and cement, injection tubing, and packer.

Details of the approved well construction plan are incorporated into this Permit as APPENDIX A. Changes to the approved plan that may occur during construction must be approved by the Director prior to being physically incorporated.

1. Casing and Cement.

The well or wells shall be cased and cemented to prevent the movement of fluids into or between underground sources of drinking water. The well casing and cement shall be designed for the life expectancy of the well and of the grade and size shown in APPENDIX A. Remedial cementing may be required if shown to be inadequate by cement bond log or other attempted demonstration of Part II (External) mechanical integrity.

2. Injection Tubing and Packer.

Injection tubing is required, and shall be run and set with a packer at or below the depth indicated in APPENDIX A. The packer setting depth may be changed provided it remains below the depth indicated in APPENDIX A and the Permittee provides notice and obtains the Director's approval for the change.

3. Sampling and Monitoring Devices.

The Permittee shall install and maintain in good operating condition:

(a) a "tap" at a conveniently accessible location on the injection flow line between the pump house or storage tanks and the injection well, isolated by shut-off valves, for collection of representative samples of the injected fluid; and

(b) one-half (1/2) inch female iron pipe fitting, isolated by shut-off valves and located at the wellhead at a conveniently accessible location, for the attachment of a pressure gauge capable of monitoring pressures ranging from normal operating pressures up to the Maximum Allowable Injection Pressure specified in APPENDIX C:

(i) on the injection tubing; and

(ii) on the tubing-casing annulus (TCA); and

(c) a pressure actuated shut-off device attached to the injection flow line set to shut-off the injection pump when or before the Maximum Allowable Injection Pressure (MAIP) specified in APPENDIX C is reached at the wellhead; and

(d) a non-resettable cumulative volume recorder attached to the injection line.

4. Well Logging and Testing

Well logging and testing requirements are found in APPENDIX B. The Permittee shall ensure the log and test requirements are performed within the time frames specified in APPENDIX B. Well logs and tests shall be performed according to current EPA-approved procedures. Well log and test results shall be submitted to the Director within sixty (60) days of completion of the logging or testing activity, and shall include a report describing the methods used during logging or testing and an interpretation of the test or log results.

5. Postponement of Construction or Conversion

The Permittee shall complete well construction within one year of the Effective Date of the Permit, or in the case of an Area Permit within one year of Authorization of the additional well. Authorization to construct and operate shall expire if the well has not been constructed within one year of the Effective Date of the Permit or Authorization and the Permit may be terminated under 40 CFR 144.40, unless the Permittee has notified the Director and requested an extension prior to expiration. Notification shall be in writing, and shall state the reasons for the delay and provide an estimated completion date. Once Authorization has expired under this part, the complete permit process including opportunity for public comment may be required before Authorization to construct and operate may be reissued.

6. Workovers and Alterations

Workovers and alterations shall meet all conditions of the Permit. Prior to beginning any addition or physical alteration to an injection well that may significantly affect the tubing, packer or casing, the Permittee shall give advance notice to the Director and obtain the Director's approval. The Permittee shall record all changes to well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workover, logging, or test data to EPA within sixty (60) days of completion of the activity.

A successful demonstration of Part I MI is required following the completion of any well workover or alteration which affects the casing, tubing, or packer. Injection operations shall not be resumed until the well has successfully demonstrated mechanical integrity and the Director has provided written approval to resume injection.

Section B. MECHANICAL INTEGRITY

The Permittee is required to ensure each injection well maintains mechanical integrity at all times. The Director, by written notice, may require the Permittee to comply with a schedule describing when mechanical integrity demonstrations shall be made.

An injection well has mechanical integrity if:

(a) There is no significant leak in the casing, tubing, or packer (Part I); and

(b) There is no significant fluid movement into an underground source of drinking water through vertical channels adjacent to the injection well bore (Part II).

1. Demonstration of Mechanical Integrity (MI).

The operator shall demonstrate MI prior to commencing injection and periodically thereafter. Well-specific conditions dictate the methods and the frequency for demonstrating MI and are discussed in the Statement of Basis. The logs and tests are designed to demonstrate both internal (Part I) and external (Part II) MI as described above. The conditions present at this well site warrant the methods and frequency required in Appendix B of this Permit.

In addition to these regularly scheduled demonstrations of MI, the operator shall demonstrate internal (Part I) MI after any workover which affects the tubing, packer or casing.

The Director may require additional or alternative tests if the results presented by the operator are not satisfactory to the Director to demonstrate there is no movement of fluid into or between USDWs resulting from injection activity. Results of MI tests shall be submitted to the Director as soon as possible but no later than sixty (60) days after the test is complete.

2. Mechanical Integrity Test Methods and Criteria

EPA-approved methods shall be used to demonstrate mechanical integrity. Ground Water Section Guidance No. 34 "Cement Bond Logging Techniques and Interpretation", Ground Water Section Guidance No. 37, "Demonstrating Part II (External) Mechanical Integrity for a Class II injection well permit", and Ground Water Section Guidance No. 39, "Pressure Testing Injection Wells for Part I (Internal) Mechanical Integrity" are available from EPA and will be provided upon request.

The Director may stipulate specific test methods and criteria best suited for a specific well construction and injection operation.

3. Notification Prior to Testing.

The Permittee shall notify the Director at least 30 days prior to any scheduled mechanical integrity test. The Director may allow a shorter notification period if it would be sufficient to enable EPA to witness the mechanical integrity test. Notification may be in the form of a yearly or quarterly schedule of planned mechanical integrity tests, or it may be on an individual basis.

4. Loss of Mechanical Integrity.

If the well fails to demonstrate mechanical integrity during a test, or a loss of mechanical integrity becomes evident during operation (such as presence of pressure in the TCA, water flowing at the surface, etc.), the Permittee shall notify the Director within 24 hours (see Part III Section E Paragraph 11(e) of this Permit) and the well shall be shut-in within 48 hours unless the Director requires immediate shut-in.

Within five days, the Permittee shall submit a follow-up written report that documents test results, repairs undertaken or a proposed remedial action plan.

Injection operations shall not be resumed until after the well has successfully been repaired and demonstrated mechanical integrity, and the Director has provided approval to resume injection.

Section C. WELL OPERATION

INJECTION BETWEEN THE OUTERMOST CASING PROTECTING UNDERGROUND SOURCES OF DRINKING WATER AND THE WELL BORE IS PROHIBITED.

Injection is approved under the following conditions:

1. Requirements Prior to Commencing Injection.

Well injection, including for new wells authorized by an Area Permit under 40 CFR 144.33 (c), may commence only after all well construction and pre-injection requirements herein have been met and approved. The Permittee may not commence injection until construction is complete, and

(a) The Permittee has submitted to the Director a notice of completion of construction and a completed EPA Form 7520-10 or 7520-12; all applicable logging and testing requirements of this Permit (see APPENDIX B) have been fulfilled and the records submitted to the Director; mechanical integrity pursuant to 40 CFR 146.8 and Part II Section B of this Permit has been demonstrated; and

(i) The Director has inspected or otherwise reviewed the new injection well and finds it is in compliance with the conditions of the Permit; or

(ii) The Permittee has not received notice from the Director of his or her intent to inspect or otherwise review the new injection well within 13 days of the date of the notice in Paragraph 1a, in which case prior inspection or review is waived and the Permittee may commence injection.

2. Injection Interval.

Injection is permitted only within the approved injection interval, listed in APPENDIX C. Additional individual injection perforations may be added provided that they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6.

3. Injection Pressure Limitation

(a) The permitted Maximum Allowable Injection Pressure (MAIP), measured at the wellhead, is found in APPENDIX C. Injection pressure shall not exceed the amount the Director determines is appropriate to ensure that injection does not initiate new fractures or propagate existing fractures in the confining zone adjacent to USDWs. In no case shall injection pressure cause the movement of injection or formation fluids into a USDW.

(b) The Permittee may request a change of the MAIP, or the MAIP may be increased or decreased by the Director in order to ensure that the requirements in Paragraph (a) above are fulfilled. The Permitee may be required to conduct a step rate injection test or other suitable test to provide information for determining the fracture pressure of the injection zone. Change of the permitted MAIP by the Director shall be by modification of this Permit and APPENDIX C.

4. Injection Volume Limitation.

Injection volume is limited to the total volume specified in APPENDIX C.

5. Injection Fluid Limitation.

Injected fluids are limited to those identified in 40 CFR 144.6(b)(2) as fluids used for enhanced recovery of oil or natural gas, including those which are brought to the surface in connection with conventional oil or natural gas production that may be commingled with waste waters from gas plants which are an integral part of production operations unless those waters are classified as a hazardous waste at the time of injection, pursuant to 40 CFR 144.6(b). Non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes and vacuum truck wastes, are NOT approved for injection. This well is NOT approved for commercial brine injection, industrial waste fluid disposal or injection of hazardous waste as defined by CFR 40 Part 261. The Permittee shall provide a listing of the sources of injected fluids in accordance with the reporting requirements in Part II Section D Paragraph 4 and APPENDIX D of this Permit.

6. Tubing-Casing Annulus (TCA)

The tubing-casing annulus (TCA) shall be filled with water treated with a corrosion inhibitor, or other fluid approved by the Director. The TCA valve shall remain closed during normal operating conditions and the TCA pressure shall be maintained at zero (0) psi.

If TCA pressure cannot be maintained at zero (0) psi, the Permittee shall follow the procedures in Ground Water Section Guidance No. 35 "Procedures to follow when excessive annular pressure is observed on a well."

Section D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS

1. Monitoring Parameters, Frequency, Records and Reports.

Monitoring parameters are specified in APPENDIX D. Pressure monitoring recordings shall be taken at the wellhead. The listed parameters are to be monitored, recorded and reported at the frequency indicated in APPENDIX D even during periods when the well is not operating.

Monitoring records must include:

(a) the date, time, exact place and the results of the observation, sampling, measurement, or analysis, and;

(b) the name of the individual(s) who performed the observation, sampling, measurement, or analysis, and;

(c) the analytical techniques or methods used for analysis.

2. Monitoring Methods.

(a) Monitoring observations, measurements, samples, etc. taken for the purpose of complying with these requirements shall be representative of the activity or condition being monitored.

(b) Methods used to monitor the nature of the injected fluids must comply with analytical methods cited and described in Table 1 of 40 CFR 136.3 or Appendix III of 40 CFR 261, or by other methods that have been approved in writing by the Director.

(c) Injection pressure, annulus pressure, injection rate, and cumulative injected volumes shall be observed and recorded at the wellhead under normal operating conditions, and all parameters shall be observed simultaneously to provide a clear depiction of well operation.

(d) Pressures are to be measured in pounds per square inch (psi).

(e) Fluid volumes are to be measured in standard oil field barrels (bbl).

(f) Fluid rates are to be measured in barrels per day (bbl/day).

3. Records Retention.

(a) Records of calibration and maintenance, and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained for a period of AT LEAST THREE (3) YEARS from the date of the sample, measurement, report, or application. This period may be extended anytime prior to its expiration by request of the Director.

(b) Records of the nature and composition of all injected fluids must be retained until three (3) years after the completion of any plugging and abandonment (P&A) procedures specified under 40 CFR 144.52(a)(6) or under Part 146 Subpart G, as appropriate. The Director may require the Permittee to deliver the records to the Director at the conclusion of the retention period. The Permittee shall continue to retain the records after the three (3) year retention period unless the Permittee delivers the records to the Director or obtains written approval from the Director to discard the records.

4. Annual Reports.

Whether the well is operating or not, the Permittee shall submit an Annual Report to the Director that summarizes the results of the monitoring required by Part II Section D and APPENDIX D.

The first Annual Report shall cover the period from the effective date of the Permit through December 31 of that year. Subsequent Annual Reports shall cover the period from January 1 through December 31 of the reporting year. Annual Reports shall be submitted by February 15 of the year following data collection. EPA Form 7520-11 may be copied and shall be used to submit the Annual Report, however, the monitoring requirements specified in this Permit are mandatory even if EPA Form 7520-11 indicates otherwise.

Section E. PLUGGING AND ABANDONMENT

1. Notification of Well Abandonment, Conversion or Closure.

The Permittee shall notify the Director in writing at least forty-five (45) days prior to: 1) plugging and abandoning an injection well, 2) converting to a non-injection well, and 3) in the case of an Area Permit, before closure of the project.

2. Well Plugging Requirements

Prior to abandonment, the injection well shall be plugged with cement in a manner which isolates the injection zone and prevents the movement of fluids into or between underground sources of drinking water, and in accordance with 40 CFR 146.10 and other applicable Federal, State or local law or regulations. Tubing, packer and other downhole apparatus shall be removed. Cement with additives such as accelerators and retarders that control or enhance cement properties may be used for plugs; however, volume-extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.6 lb/gal shall be placed between all plugs. A minimum 50 ft surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. Prior to placement of the cement plug(s) the well shall be in a state of static equilibrium with the mud weight equalized top to bottom, either by circulating the mud in the well at least once or by a comparable method prescribed by the Director.

3. Approved Plugging and Abandonment Plan.

The approved plugging and abandonment plan is incorporated into this Permit as APPENDIX E. Changes to the approved plugging and abandonment plan must be approved by the Director prior to beginning plugging operations. The Director also may require revision of the approved plugging and abandonment plan at any time prior to plugging the well.

4. Forty Five (45) Day Notice of Plugging and Abandonment.

The Permittee shall notify the Director at least forty-five (45) days prior to plugging and abandoning a well and provide notice of any anticipated change to the approved plugging and abanonment plan.

5. Plugging and Abandonment Report.

Within sixty (60) days after plugging a well, the Permittee shall submit a report (EPA Form 7520-13) to the Director. The plugging report shall be certified as accurate by the person who performed the plugging operation. Such report shall consist of either:

(a) A statement that the well was plugged in accordance with the approved plugging and abandonment plan; or

(b) Where actual plugging differed from the approved plugging and abandonment plan, an updated version of the plan, on the form supplied by the Director, specifying the differences.

6. Inactive Wells.

After any period of two years during which there is no injection the Permittee shall plug and abandon the well in accordance with Part II Section E Paragraph 2 of this Permit unless the Permittee:

(a) Provides written notice to the Director;

(b) Describes the actions or procedures the Permittee will take to ensure that the well will not endanger USDWs during the period of inactivity. These actions and procedures shall include compliance with mechanical integrity demonstration, Financial Responsibility and all other permit requirements designed to protect USDWs; and

(c) Receives written notice by the Director temporarily waiving plugging and abandonment requirements.

PART III. CONDITIONS APPLICABLE TO ALL PERMITS

Section A. EFFECT OF PERMIT

The Permittee is allowed to engage in underground injection in accordance with the conditions of this Permit. The Permittee shall not construct, operate, maintain, convert, plug, abandon, or conduct any other activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation under 40 CFR 142 or may otherwise adversely affect the health of persons. Any underground injection activity not authorized by this Permit or by rule is prohibited. Issuance of this Permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of any other Federal, State or local law or regulations. Compliance with the terms of this Permit does not constitute a defense to any enforcement action brought under the provisions of Section 1431 of the Safe Drinking Water Act (SDWA) or any other law governing protection of public health or the environment, for any imminent and substantial endangerment to human health or the environment, nor does it serve as a shield to the Permittee's independent obligation to comply with all UIC regulations. Nothing in this Permit relieves the Permittee of any duties under applicable regulations.

Section B. CHANGES TO PERMIT CONDITIONS

1. Modification, Reissuance, or Termination.

The Director may, for cause or upon a request from the Permittee, modify, revoke and reissue, or terminate this Permit in accordance with 40 CFR 124.5, 144.12, 144.39, and 144.40. Also, this Permit is subject to minor modification for causes as specified in 40 CFR 144.41. The filing of a request for modification, revocation and reissuance, termination, or the notification of planned changes or anticipated noncompliance on the part of the Permittee does not stay the applicability or enforceability of any condition of this Permit.

2. Conversions.

The Director may, for cause or upon a written request from the Permittee, allow conversion of the well from a Class II injection well to a non-Class II well. Conversion may not proceed until the Permittee receives written approval from the Director. Conditions of such conversion may include but are not limited to, approval of the proposed well rework, follow up demonstration of mechanical integrity, well-specific monitoring and reporting following the conversion, and demonstration of practical use of the converted configuration.

3. Transfer of Permit.

Under 40 CFR 144.38, this Permit is transferable provided the current Permittee notifies the Director at least thirty (30) days in advance of the proposed transfer date (EPA Form 7520-7) and provides a written agreement between the existing and new Permittees containing a specific date for transfer of Permit responsibility, coverage and liability between them. The notice shall adequately demonstrate that the financial responsibility requirements of 40 CFR 144.52(a)(7) will be met by the new Permittee. The Director may require modification or revocation and reissuance of the Permit to change the name of the Permittee and incorporate such other requirements as may be necessary under the Safe Drinking Water Act; in some cases, modification or revocation and reissuance is mandatory.

4. Permittee Change of Address.

Upon the Permittee's change of address, or whenever the operator changes the address where monitoring records are kept, the Permittee must provide written notice to the Director within 30 days.

5. Construction Changes, Workovers, Logging and Testing Data

The Permittee shall give advance notice to the Director, and shall obtain the Director's written approval prior to any physical alterations or additions to the permitted facility. Alterations or workovers shall meet all conditions as set forth in this permit. The Permittee shall record any changes to the well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workovers, logging , or test data to EPA within sixty (60) days of completion of the activity.

Following the completion of any well workovers or alterations which affect the casing, tubing, or packer, a successful demonstration of mechanical integrity (Part III, Section F of this Permit) shall be made, and written authorization from the Director received, prior to resuming injection activities.

Section C. SEVERABILITY

The Provisions of this Permit are severable, and if any provision of this Permit or the application of any provision of this Permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Permit shall not be affected thereby.

Section D. CONFIDENTIALITY

In accordance with 40 CFR Part 2 and 40 CFR 144.5, information submitted to EPA pursuant to this Permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, EPA may make the information available to the public without further notice. If a claim is asserted, the validity of the claim will be assessed in accordance with the procedures in 40 CFR Part 2 (Public Information). Claims of confidentiality for the following information will be denied:

- The name and address of the Permittee, and
- information which deals with the existence, absence or level of contaminants in drinking water.

Section E. GENERAL PERMIT REQUIREMENTS

1. Duty to Comply.

The Permittee must comply with all conditions of this Permit. Any noncompliance constitutes a violation of the Safe Drinking Water Act (SDWA) and is grounds for enforcement action; for Permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application; except that the Permittee need not comply with the provisions of this Permit to the extent and for the duration such noncompliance is authorized in an emergency permit under 40 CFR 144.34. All violations of the SDWA may subject the Permittee to penalties and/or criminal prosecution as specified in Section 1423 of the SDWA.

2. Duty to Reapply.

If the Permittee wishes to continue an activity regulated by this Permit after the expiration date of this Permit, under 40 CFR 144.37 the Permittee must apply for a new permit prior to the expiration date.

3. Need to Halt or Reduce Activity Not a Defense.

It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Permit.

4. Duty to Mitigate.

The Permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this Permit.

5. Proper Operation and Maintenance.

The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of this Permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this Permit.

6. Permit Actions.

This Permit may be modified, revoked and reissued or teminated for cause. The filing of a request by the Permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

7. Property Rights.

This Permit does not convey any property rights of any sort, or any exclusive privilege.

8. Duty to Provide Information.

The Permittee shall furnish to the Director, within a time specified, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The Permittee shall also furnish to the Director, upon request, copies of records required to be kept by this Permit. The Permittee is required to submit any information required by this Permit or by the Director to the mailing address designated in writing by the Director.

9. Inspection and Entry.

The Permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

(a) Enter upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Permit;

(b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;

(c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and,

(d) Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the SDWA, any substances or parameters at any location.

10. Signatory Requirements.

All applications, reports or other information submitted to the Director shall be signed and certified according to 40 CFR 144.32. This section explains the requirements for persons duly authorized to sign documents, and provides wording for required certification.

11. Reporting Requirements.

(a) Planned changes. The Permittee shall give notice to the Director as soon as possible of any planned changes, physical alterations or additions to the permitted facility, and prior to commencing such changes.

(b) Anticipated noncompliance. The Permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

(c) Monitoring Reports. Monitoring results shall be reported at the intervals specified in this Permit.

(d) Compliance schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than 30 days following each schedule date.

(e) Twenty-four hour reporting. The Permittee shall report to the Director any noncompliance which may endanger human health or the environment, including:

(i) Any monitoring or other information which indicates that any contaminant may cause endangerment to a USDW; or

(ii) Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between USDWs.

Information shall be provided, either directly or by leaving a message, within twenty-four (24) hours from the time the permittee becomes aware of the circumstances by telephoning (800) 227-8917 and requesting EPA Region VIII UIC Program Compliance and Technical Enforcement Director, or by contacting the EPA Region VIII Emergency Operations Center at (303) 293-1788.

In addition, a follow up written report shall be provided to the Director within five (5) days of the time the Permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance including exact dates and times, and if the noncompliance has not been corrected the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

(f) Oil Spill and Chemical Release Reporting: The Permittee shall comply with all reporting requirements related to the occurence of oil spills and chemical releases by contacting the National Response Center (NRC) at (800) 424-8802, (202) 267-2675, or through the NRC website http://www.nrc.uscg.mil/index.htm.

(g) Other Noncompliance. The Permittee shall report all instances of noncompliance not reported under paragraphs Part III, Section E Paragraph 11(b) or Section E, Paragraph 11(e) at the time the monitoring reports are submitted. The reports shall contain the information listed in Paragraph 11(e) of this Section.

(h) Other information. Where the Permittee becomes aware that it failed to submit any relevant facts in the permit application, or submitted incorrect information in a permit application or in any report to the Director, the Permittee shall promptly submit such facts or information to the Director.

Section F. FINANCIAL RESPONSIBILITY

1. Method of Providing Financial Responsibility.

The Permittee shall maintain continuous compliance with the requirement to maintain financial responsibility and resources to close, plug, and abandon the underground injection well(s). No substitution of a demonstration of financial responsibility shall become effective until the Permittee receives written notification from the Director that the alternative demonstration of financial responsibility is acceptable. The Director may, on a periodic basis, require the holder of a permit to revise the estimate of the resources needed to plug and abandon the well to reflect changes in such costs and may require the Permittee to provide a revised demonstration of financial responsibility.

2. Insolvency.

In the event of:

(a) the bankruptcy of the trustee or issuing institution of the financial mechanism; or

(b) suspension or revocation of the authority of the trustee institution to act as trustee; or

(c) the institution issuing the financial mechanism losing its authority to issue such an instrument

the Permittee must notify the Director in writing, within ten (10) business days, and the Permittee must establish other financial assurance or liability coverage acceptable to the Director within sixty (60) days after any event specified in (a), (b), or (c) above.

The Permittee must also notify the Director by certified mail of the commencement of voluntary or involuntary proceedings under Title 11 (Bankruptcy), U.S. Code naming the owner or operator as debtor, within ten (10) business days after the commencement of the proceeding. A guarantor, if named as debtor of a corporate guarantee, must make such a notification as required under the terms of the guarantee.

APPENDIX A

WELL CONSTRUCTION REQUIREMENTS

See diagram.

The Federal No. 15-8-9-18 was drilled to a total depth of 5924 feet (KB) feet in the Basal Carbonate Member. Adequate 80% bond index cement is NOT present within the Confining Zone.

Surface casing (8-5/8 inch) was set at a depth of 323 feet in a 12-1/4 inch hole using 220 sacks of Class "G" cement which was circulated to the surface.

Production casing (5-1/2 inch) was set at a depth of 5922 feet (KB) in a 7-7/8 inch hole with 675 sacks of Class G cement.. This well construction is NOT considered adequate to protect USDWs.

The EPA calculates the top of cement as 1548 feet from the surface. There is no Cement Bond Log (CBL) from which to identify CBL top of cement, or to conduct an analysis of cement bond within the Confining Zone.

The schematic diagram shows enhanced recovery injection perforations in the Douglas Creek Member of the Green River Formation. Additional perforations may be added at a later time between the depths of 3602 feet and the top of the Wasatch Formation (5846 feet) provided the operator first notifies the Director and later submits an updated well completion report (EPA Form 7520-12) and schematic diagram.

The packer will be set no higher than 100 feet above the top perforation.

Total depth and plug back total depth are both identified as 5924 feet. The submitted Bureau of Land Management (Well Completion Log) identifies total depth as 5924 feet. No plug back total depth is cited.

UT21149-07848

Federal 15-8-9-18

Spud Date: 10/24/84
Put on Production: 12/9/84
GL: 5046' KB: 5056'

Proposed Injection
Wellbore Diagram

Initial Production: 168 BOPD,
12 MCFD, 252 BWPD

FRAC JOB

5346'-5428'

Frac sands as follows:

112,000# 20/40 sand in 1690 bbls GWX-7 frac fluid.

SURFACE CASING

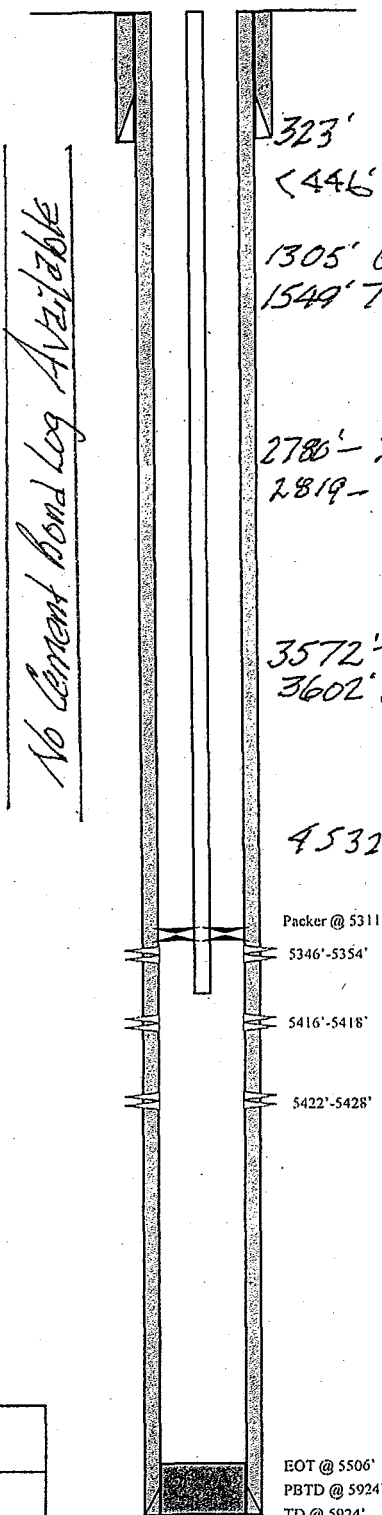
CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
DEPTH LANDED: 323' KB
HOLE SIZE:12-1/4"
CEMENT DATA: 220 sxs Class "G" cmt.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
DEPTH LANDED: 5922' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 675 sxs Class "G" cmt.
CEMENT TOP AT: ? per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS:
TUBING ANCHOR:
NO. OF JOINTS:
SEATING NIPPLE: 2-7/8" (1.10')
SN LANDED AT:
TOTAL STRING LENGTH: EOT @ 5506' KB



PERFORATION RECORD

5422'-5428'	4 JSPF	24 holes
5416'-5488'	4 JSPF	08 holes
5346'-5354'	4 JSPF	32 holes

NEWFIELD

Federal 15-8-9-18

660' FSL & 1977' FEL
SW/SE Section 8-T9S-R18E
Uintah Co, Utah
API #43-047-31547; Lease #UTU-16540

MC 5/7/07

APPENDIX B

LOGGING AND TESTING REQUIREMENTS

Logs.
Logs will be conducted according to current UIC guidance. It is the responsibility of the Permittee to obtain and use guidance prior to conducting any well logging required as a condition of this permit.

WELL NAME: Federal 15-8-9-18

TYPE OF LOG	DATE DUE
CBL/VDL/GAMMA RAY	Required prior to receiving authorization to inject.

Tests.
Tests will be conducted according to current UIC guidance. It is the responsibility of the Permittee to obtain and use guidance prior to conducting any well test required as a condition of this permit.

WELL NAME: Federal 15-8-9-18

TYPE OF TEST	DATE DUE
Standard Annulus Pressure	Prior to receiving authorization to inject and at least once within any five (5) year period following the last successful test.
Pore Pressure	Prior to receiving authorization to inject.

APPENDIX C

OPERATING REQUIREMENTS

MAXIMUM ALLOWABLE INJECTION PRESSURE:

Maximum Allowable Injection Pressure (MAIP) as measured at the surface shall not exceed the pressure(s) listed below.

WELL NAME	MAXIMUM ALLOWED INJECTION PRESSURE (psi) ZONE 1 (Upper)
Federal 15-8-9-18	1,335

INJECTION INTERVAL(S):

Injection is permitted only within the approved injection interval listed below. Injection perforations may be altered provided they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6. Specific injection perforations can be found in Appendix A.

WELL NAME: Federal 15-8-9-18

FORMATION NAME	APPROVED INJECTION INTERVAL (KB, ft) TOP	BOTTOM	FRACTURE GRADIENT (psi/ft)
Green River	3,602.00	5,846.00	0.690

ANNULUS PRESSURE:

The annulus pressure shall be maintained at zero (0) psi as measured at the wellhead. If this pressure cannot be maintained, the Permittee shall follow the procedures listed under Part II, Section C. 6. of this permit.

MAXIMUM INJECTION VOLUME:

There is no limitation on the number of barrels per day (bbls/day) of water that shall be injected into this well, provided further that in no case shall injection pressure exceed that limit shown in Appendix C.

APPENDIX D

MONITORING AND REPORTING PARAMETERS

This is a listing of the parameters required to be observed, recorded, and reported. Refer to the permit Part II, Section D, for detailed requirements for observing, recording, and reporting these parameters.

OBSERVE MONTHLY AND RECORD AT LEAST ONCE EVERY THIRTY DAYS	
OBSERVE AND RECORD	Injection pressure (psig)
	Annulus pressure(s) (psig)
	Injection rate (bbl/day)
	Fluid volume injected since the well began injecting (bbls)

ANNUALLY	
ANALYZE	Injected fluid total dissolved solids (mg/l)
	Injected fluid specific gravity
	Injected fluid specific conductivity
	Injected fluid pH

ANNUALLY	
REPORT	Each month's maximum and averaged injection pressures (psig)
	Each month's maximum and minimum annulus pressure(s) (psig)
	Each month's injected volume (bbl)
	Fluid volume injected since the well began injecting (bbl)
	Written results of annual injected fluid analysis
	Sources of all fluids injected during the year

In addition to these items, additional Logging and Testing results may be required periodically. For a list of those items and their due dates, please refer to APPENDIX B - LOGGING AND TESTING REQUIREMENTS.

APPENDIX E

PLUGGING AND ABANDONMENT REQUIREMENTS

See diagram.

The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluid into or between USDWs and in accordance with other applicable Federal, State or local law or regulation. Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs. However, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. Within sixty (60) days after plugging, the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

PLUG NO. 1: Seal Injection Zone: Set a cast iron bridge plug (CIBP) no more than fifty (50) feet above the top injection perforation. Place at least twenty (20) feet of cement plug on top of the CIBP.

PLUG NO. 2: Seal Mahogany Shale and Trona intervals: Squeeze a cement plug on the backside of the 5-1/2 inch casing across the Trona Zone and the Mahogany Shale approximately 2730 feet to 2890 feet (unless pre-existing backside cement precludes cement-squeezing this interval) followed by a minimum 160-foot balanced cement plug inside the 5-1/2 inch casing across the Trona Zone and the Mahogany Shale, approximately 2730 feet to 2890 feet.

PLUG NO. 3: Seal USDWs: Squeeze a cement plug (1250 feet - 1350 feet) on the backside of the 5-1/2 inch casing across the base of the Uinta formation (unless pre-existing backside cement precludes cement-squeezing this interval), followed by a minimum 100-foot balanced cement plug inside the 5-1/2 inch casing across the base of the Uinta Formation, approximately 1250 feet to 1350 feet.

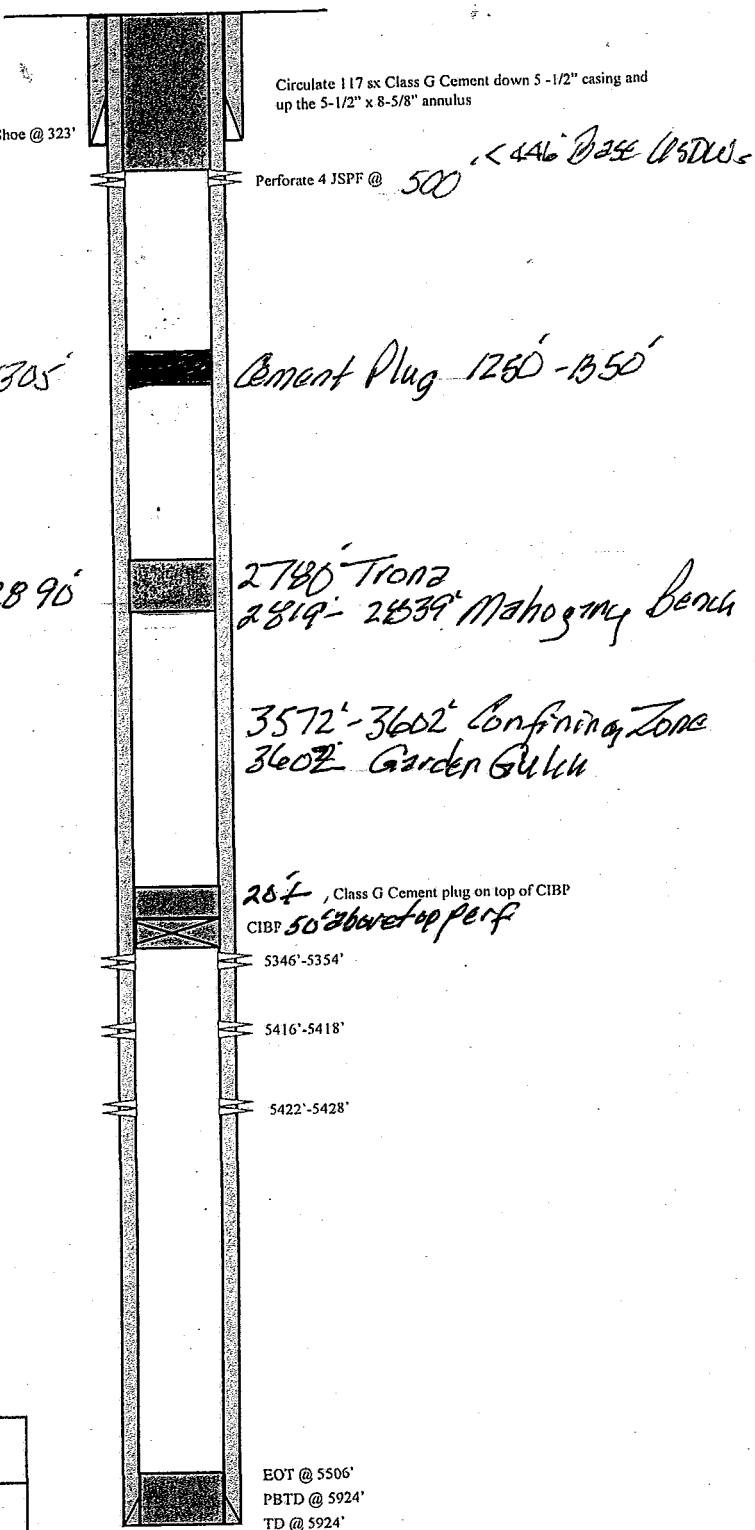
PLUG NO.4: Seal Surface: Set a Class "G" cement plug within the 5-1/2 inch casing to 500 feet and up the 5-1/2 inch by 8-5/8 inch casings annulus to the surface.

Attachment Q-1

Federal 15-8-9-18

Spud Date: 10/24/84
Put on Production: 12/9/84
GL: 5046' KB: 5056'

Proposed P & A
Wellbore Diagram



SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
DEPTH LANDED: 323' KB
HOLE SIZE: 12-1/4"
CEMENT DATA: 220 sxs Class "G" cmt.

PRODUCTION CASING

Green River 1305'

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
DEPTH LANDED: 5922' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 675 sxs Class "G" cmt.
CEMENT TOP AT: ? per CBL

Cement Plug 2736'-2896'

NEWFIELD

Federal 15-8-9-18

660' FSL & 1977' FEL
SW/SE Section 8-T9S-R18E
Uintah Co, Utah
API #43-047-31547; Lease #UTU-16540

MC 5/7/07

APPENDIX F

CORRECTIVE ACTION REQUIREMENTS

Federal No. 10-8-9-18 will be monitored weekly at the surface for evidence of fluid movement out of the injection zone.

In addition, Newfield developed a corrective action monitoring program, effective July 10, 2008, entitled "Procedure related to proposed Class II Enhanced Oil Recovery Injection Wells determined by the EPA to have specific Area of Review (AOR) wells with inadequate cement across the Confining Zone".

If possible fluid movement out of the injection zone is identified, either through the weekly monitoring, through Newfield's July 10, 2008 procedure described above, or through any other means (for example, evidence of fluid flow or increased bradenhead annulus pressure readings, tubing-casing annulus pressure readings, or other evidence of a mechanical integrity failure), the Permittee will shut in the Federal No. 15-8 9-18 well immediately and notify the Director. No injection into the Federal No. 15-8-9-18 well will be permitted until the Permittee has notfied the Director that the situation has been resolved, submitted Rework Records (EPA Form No. 7520-12) and a schematic diagram, and received authorization from the Director to re-commence injection.

NEWFIELD

ROCKY MOUNTAINS

RE: Procedure related to proposed Class II Enhanced Oil Recovery Injection Wells determined by the EPA to have specific Area of Review (AOR) wells with inadequate cement across the confining zone

Effective July 10, 2008 Newfield Production Company will implement the following procedure to address concerns related to protection of Underground Sources of Drinking Water (USDW) in AOR wells where the interval of cement bond index across the confining zone behind pipe has been determined to be inadequate. The procedure is intended to meet the corrective action requirements found in the UIC Class II permit, as well as provide data that could be used to detect and prevent fluid movement out of the proposed injection zone.

1) Establish baseline production casing by surface casing annulus pressures prior to water injection in subject well with a calibrated gauge.
2) Record the baseline pressure, report findings to Newfield engineering group and keep on file so it is available upon request
3) Place injection well in service. Run packer integrity and radioactive tracer logs to verify wellbore integrity and determine zones taking water.
4) Construct a geologic cross section showing zones taking water and their geologic equivalent zones in the AOR wells.
5) Submit a report of the packer integrity log, radioactive tracer log, and geologic cross section to to the Newfield engineering staff for review and keep on file so it is available upon request
6) Weekly observations of the site will be made by Newfield during normal well operating activities. Any surface discharge of fluids will be reported immediately.
7) After injection well is placed in service, weekly observations of annulus pressure will be made and compared to baseline pressure and will be recorded once monthly. The recorded pressure information will be kept on file and be available upon request.
8) If pressure increases by more than 10% above baseline at any time in an AOR well with insufficient cement bond, Newfield will run a temperature survey log in subject well. This log, in concert with the geologic crossection, will enable the determination of water movement in the open hole by production casing annulus through a shift in geothermal gradient.
9) If water movement is determined in annulus, Newfield will shut in the injection well and repair the production casing by open hole annulus or leave the injection well out of service.

STATEMENT OF BASIS

NEWFIELD PRODUCTION COMPANY
FEDERAL 15-8-9-18
UINTAH COUNTY, UT

EPA PERMIT NO. UT21149-07848

CONTACT: Emmett Schmitz
U. S. Environmental Protection Agency
Ground Water Program, 8P-W-GW
1595 Wynkoop Street
Denver, Colorado 80202-1129
Telephone: 1-800-227-8917 ext. 312-6174

This STATEMENT OF BASIS gives the derivation of site-specific UIC Permit conditions and reasons for them. Referenced sections and conditions correspond to sections and conditions in the Permit.

EPA UIC permits regulate the injection of fluids into underground injection wells so that the injection does not endanger underground sources of drinking water. EPA UIC permit conditions are based upon the authorities set forth in regulatory provisions at 40 CFR Parts 144 and 146, and address potential impacts to underground sources of drinking water. Under 40 CFR 144.35 Issuance of this permit does not convey any property rights of any sort or any exclusive privilege, nor authorize injury to persons or property of invasion of other private rights, or any infringement of other Federal, State or local laws or regulations. Under 40 CFR 144 Subpart D, certain conditions apply to all UIC Permits and may be incorporated either expressly or by reference. General Permit conditions for which the content is mandatory and not subject to site-specific differences (40 CFR Parts 144, 146 and 147) are not discussed in this document.

Upon the Effective Date when issued, the Permit authorizes the construction and operation of injection wells so that the injection does not endanger underground sources of drinking water, governed by the conditions specified in the Permit. The Permit is issued for the operating life of the injection well or project unless terminated for reasonable cause under 40 CFR 144.39, 144.40 and 144.41. The Permit is subject to EPA review at least once every five (5) years to determine if action is required under 40 CFR 144.36(a).

PART I. General Information and Description of Facility

Newfield Production Company
1001 Seventeenth Street, Suite 2000
Denver, CO 80202

on

June 25, 2007

submitted an application for an Underground Injection Control (UIC) Program Permit or Permit Modification for the following injection well or wells:

Federal 15-8-9-18
660'FSL; 1977'FEL., SWSE S8, T9S, R18E
Uintah County, UT

Regulations specific to Uintah-Ouray Indian Reservation injection wells are found at 40 CFR 147 Subpart TT.

The application, including the required information and data necessary to issue or modify a UIC Permit in accordance with 40 CFR Parts 144, 146 and 147, was reviewed and determined by EPA to be complete.

The Permit will expire upon delegation of primary enforcement responsibility (primacy) for applicable portions of the UIC Program to the Ute Indian Tribe or the State of Utah unless the delegated agency has the authority and chooses to adopt and enforce this Permit as a Tribal or State Permit.

TABLE 1.1 shows the status of the well or wells as "New", "Existing", or "Conversion" and for Existing shows the original date of injection operation. Well authorization "by rule" under 40 CFR Part 144 Subpart C expires automatically on the Effective Date of an issued UIC Permit.

The Federal No. 15-8-9-18 is currently an active Green River Formation, Douglas Creek Member, oil well. It is the initial intent of the applicant to use the current Douglas Creek perforations for Class II enhanced recovery injection. The Federal No. 15-8-9-18 has total depth in the Wasatch Formation. The Federal No. 15-8-9-18 was placed on production December 9. 1984.

TABLE 1.1

WELL STATUS / DATE OF OPERATION

NEW WELLS

Well Name	Well Status	Date of Operation
Federal 15-8-9-18	New	N/A

PART II. Permit Considerations (40 CFR 146.24)

Hydrogeologic Setting

Water wells for domestic supply in this area, when present, generally are completed into the shallow alluvium, the Duchesne River Formation, or the underlying Uinta Formation, and the water generally contains approximately 500 to 1,500 mg/l and higher total dissolved solids.

The Uinta-Animas aquifer in the Uinta Basin is present in water-yielding beds of sandstone, conglomerate, and siltstone of the Duchesne River and Uinta Formations, the Renegade Tongue of the Wasatch Formation, and the Douglas Creek Member of the Green River Formation. The Renegade Tongue of the Wasatch Formation and the Douglas Creek Member of the Green River Formation contain an aquifer along the southern and eastern margins of the basin where the rocks primarily consist of fluvial, massive, irregularly bedded sandstone and siltstone. Water-yielding units in the Uinta-Animas aquifer in the Uinta Basin commonly are separated from each other and from the underlying Mesaverde aquifer by units of low permeability composed of claystone, shale, marlstone, or limestone. In the Uinta Basin, for example, the part of the aquifer in the Duchesne River and Uinta Formations ranges in thickness from 0 feet at the southern margin of the aquifer to as much as 9,000 feet in the north-central part of the aquifer. Ground-water recharge to the Uinta-Animas aquifer generally occurs in the areas of higher altitude along the margins of the basin. Ground water is discharged mainly to streams, springs, and by transpiration from vegetation growing along stream valleys. The rate of ground-water withdrawal is small, and natural discharge is approximately equal to recharge. Recharge occurs near the southern margin of the aquifer, and discharge occurs near the White and Green Rivers (from USGS publication HA 730-C). Water samples from Mesaverde sands in the nearby Natural Buttes Unit yielded highly saline water.

Geologic Setting (TABLE 2.1)

Water wells for domestic supply in this area, when present, generally are completed into the shallow alluvium, the Duchesne River Formation, or the underlying Uinta Formation, and the water generally contains approximately 500 to 1,500 mg/l and higher total dissolved solids.

The Uinta-Animas aquifer in the Uinta Basin is present in water-yielding beds of sandstone, conglomerate, and siltstone of the Duchesne River and Uinta Formations, the Renegade Tongue of the Wasatch Formation, and the Douglas Creek Member of the Green River Formation. The Renegade Tongue of the Wasatch Formation and the Douglas Creek Member of the Green River Formation contain an aquifer along the southern and eastern margins of the basin where the rocks primarily consist of fluvial, massive, irregularly bedded sandstone and siltstone. Water-yielding units in the Uinta-Animas aquifer in the Uinta Basin commonly are separated from each other and from the underlying Mesaverde aquifer by units of low permeability composed of claystone, shale, marlstone, or limestone. In the Uinta Basin, for example, the part of the aquifer in the Duchesne River and Uinta Formations ranges in thickness from 0 feet at the southern margin of the aquifer to as much as 9,000 feet in the north-central part of the aquifer. Ground-water recharge to the Uinta-Animas aquifer generally occurs in the areas of higher altitude along the margins of the basin. Ground water is discharged mainly to streams, springs, and by transpiration from vegetation growing along stream valleys. The rate of ground-water withdrawal is small, and natural discharge is approximately equal to recharge. Recharge occurs near the southern margin of the aquifer, and discharge occurs near the White and Green Rivers (from USGS publication HA 730-C). Water samples from Mesaverde sands in the nearby Natural Buttes Unit yielded highly saline water.

TABLE 2.1
GEOLOGIC SETTING
Federal 15-8-9-18

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Lithology
Uinta	0	446	< 10,000	Sand and shale.
Uinta	446	1,305		Interbedded lacustrine sand, shale and carbonate with fluvial sand and shale.
Green River	1,305	3,602		Interbedded lacustrine sand, shale and carbonate with fluvial sand and shale.
Gren River: Trona	2,780	2,819		Evaporite.
Green River: Mahogany Bench	2,819	2,839		Carbonate.
Green River: Confining Zone	3,572	3,602		Shale.
Green River: Garden Gulch	3,602	4,532		Interbeded lacustrine sand, shale and carbonate with fluvial sand and shale.
Green River: Douglas Creek	4,532	5,724	45,185	Interbedded lacustrine sand, shale and carbonate with fluvial sand and shale.
Green River: Basal Carbonate	5,724	5,846		Carbonate.

Proposed Injection Zone(s) (TABLE 2.2)

An injection zone is a geological formation, group of formations, or part of a formation that receives fluids through a well. The proposed injection zones are listed in TABLE 2.2.

Injection will occur into an injection zone that is separated from USDWs by a confining zone which is free of known open faults or fractures within the Area of Review.

The Environmental Protection Agency (EPA) approved interval for Class II enhanced recovery injection in the Federal No. 15-8-9-18 is located between the top of the Garden Gulch Member (3602 feet) and the top of the Wasatch Formation 5846 feet.

TABLE 2.2
INJECTION ZONES
Federal 15-8-9-18

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Fracture Gradient (psi/ft)	Porosity	Exempted?*
Green River	3,602	5,846	45,185	0.690		N/A

*** C - Currently Exempted**
E - Previously Exempted
P - Proposed Exemption
N/A - Not Applicable

Confining Zone(s) (TABLE 2.3)

A confining zone is a geological formation, part of a formation, or a group of formations that limits fluid movement above the injection zone. The confining zone or zones are listed in TABLE 2.3.

The 30-foot shale Confining Zone (3572 feet - 3602 feet) directly overlies the top of the Garden Gulch Member. There is no Cement Bond Log from which to cite the presence or absence of 80% annulus cement bond.

TABLE 2.3
CONFINING ZONES
Federal 15-8-9-18

Formation Name	Formation Lithology	Top (ft)	Base (ft)
Green River	Shale	3,572	3,602

Underground Sources of Drinking Water (USDWs) (TABLE 2.4)

Aquifers or the portions thereof which contain less than 10,000 mg/l total dissolved solids (TDS) and are being or could in the future be used as a source of drinking water are considered to be USDWs. The USDWs in the area of this facility are identified in TABLE 2.4.

Throughout the Greater Monument Butte Field area undergoing enhanced oil recovery operations, water analyses of the Green River Formation generally exhibit total dissolved solids (TDS) content well in excess of 10,000 mg/l. However, some recent water analyses from the field showed lower TDS values closer to 10,000 mg/l. While rain and surface water recharge into Green River Formation outcrops further south along the Book Cliffs/Roan Cliffs in effect "freshens" the Green River Formation water near those outcrops, in this area of the Monument Butte Field the observed occasional 'freshening' is ascribed to the effective dilution of the originally in-place high TDS water from injection of relatively fresh water for enhanced oil recovery operations. Water samples from deeper Mesaverde Formation sands in the nearby Natural Buttes Unit yield highly saline water.

The State of Utah "Water Wells and Springs" identifies no public water supply wells within the one-quarter (1/4) mile Area-of-Review (AOR) around the Federal No. 15-8-9-18.

Technical Publication No. 92: State of Utah, Department of Natural Resources, cites the base of Underground Sources of Drinking Water (USDW) in the Uinta Formation approximately 446 feet from the surface. Absent definitive information relative to the water quality of the Uinta Formation, 446 feet to the base of the Uinta Formation (1305 feet), the EPA will require during plugging and abandonment a cement plug at the base of the Uinta Formation to protect contamination of possible Uinta USDWs.

TABLE 2.4
UNDERGROUND SOURCES OF DRINKING WATER (USDW)
Federal 15-8-9-18

Formation Name	Formation Lithology	Top (ft)	Base (ft)	TDS (mg/l)
Uinta	Sand and shale.	0	446	< 10,000
Uinta	Interbedded lacustrine sand, shale and carbonate with fluvial sand and shale.	446	1,305	

PART III. Well Construction (40 CFR 146.22)

See diagram.

The Federal No. 15-8-9-18 was drilled to a total depth of 5924 feet (KB) feet in the Basal Carbonate Member. Adequate 80% bond index cement is not present within the Confining Zone.

Surface casing (8-5/8 inch) was set at a depth of 323 feet in a 12-1/4 inch hole using 220 sacks of Class "G" cement which was circulated to the surface.

Production casing (5-1/2 inch) was set at a depth of 5922 feet (KB) in a 7-7/8 inch hole with 675 sacks of Class G cement.. This well construction is not considered adequate to protect USDWs.

The EPA calculates the top of cement as 1548 feet from the surface. There is no Cement Bond Log (CBL) from which to identify CBL top of cement, or to conduct an analysis of cement bond within the Confining Zone.

The schematic diagram shows enhanced recovery injection perforations in the Garden Gulch and Douglas Creek Members of the Green River Formation. Additional perforations may be added at a later time between the depths of 3602 feet and the top of the Wasatch Formation (5846 feet) provided the operator first notifies the Director and later submits an updated well completion report (EPA Form 7520-12) and schematic diagram.

The packer will be set no higher than 100 feet above the top perforation.

Total depth and plugged back total depth are both identified as 5924 feet. The submitted Bureau of Land Management (Well Completion Log) identifies total depth as 5924 feet. No plugged back total depth is cited.

TABLE 3.1
WELL CONSTRUCTION REQUIREMENTS
Federal 15-8-9-18

Casing Type	Hole Size (in)	Casing Size (in)	Cased Interval (ft)	Cemented Interval (ft)
Production	7.88	5.50	0 - 5,922	1,549 - 5,924
Surface	12.25	8.63	0 - 323	0 - 323

The approved well completion plan will be incorporated into the Permit as APPENDIX A and will be binding on the Permittee. Modification of the approved plan is allowed under 40 CFR 144.52(a)(1) provided written approval is obtained from the Director prior to actual modification.

Casing and Cementing (TABLE 3.1)
The well construction plan was evaluated and determined to be in conformance with standard practices and guidelines that ensure well injection does not result in the movement of fluids into USDWs. Well construction details for this "new" injection well is shown in TABLE 3.1.

Remedial cementing may be required if the casing cement is shown to be inadequate by cement bond log or other demonstration of Part II (External) mechanical integrity.

Tubing and Packer
Injection tubing is required to be installed from a packer up to the surface inside the well casing. The packer will be set above the uppermost perforation. The tubing and packer are designed to prevent injection fluid from coming into contact with the outermost casing.

Tubing-Casing Annulus (TCA)
The TCA allows the casing, tubing and packer to be pressure-tested periodically for mechanical integrity, and will allow for detection of leaks. The TCA will be filled with fresh water treated with a corrosion inhibitor or other fluid approved by the Director.

The tubing/casing annulus must be kept closed at all times so that it can be monitored as required under conditions of the Permit.

Monitoring Devices
The permittee will be required to install and maintain wellhead equipment that allows for monitoring pressures and providing access for sampling the injected fluid. Required equipment may include but is not limited to: 1) shut-off valves located at the wellhead on the injection tubing and on the TCA; 2) a flow meter that measures the cumulative volume of injected fluid; 3) fittings or pressure gauges attached to the injection tubing and the TCA for monitoring the injection and TCA pressure; and 4) a tap on the injection line, isolated by shut-off valves, for sampling the injected fluid.

All sampling and measurement taken for monitoring must be representative of the monitored activity.

PART IV. Area of Review, Corrective Action Plan (40 CFR 144.55)

TABLE 4.1
AOR AND CORRECTIVE ACTION

Well Name	Type	Status (Abandoned Y/N)	Total Depth (ft)	TOC Depth (ft)	CAP Required (Y/N)
Federal 10-8-9-18	Producer	No	5,925	950	Yes
Federal 14-8-9-18	Producer	No	5,855	60	No
Federal 16-8-9-18	Producer	No	5,870	340	No

TABLE 4.1 lists the wells in the Area of Review ("AOR") and shows the well type, operating status, depth, top of casing cement ("TOC") and whether a Corrective Action Plan ("CAP") is required for the well.

Area Of Review

Applicants for Class I, II (other than "existing" wells) or III injection well Permits are required to identify the location of all known wells within the injection well's Area of Review (AOR) which penetrate the injection zone, or in the case of Class II wells operating over the fracture pressure of the formation, all known wells within the area of review that penetrate formations which may be affected by increased pressure. Under 40 CFR 146.6 the AOR may be a fixed radius of not less than one quarter (1/4) mile or a calculated zone of endangering influence. For Area Permits, a fixed width of not less than one quarter (1/4) mile for the circumscribing area may be used.

Corrective Action Plan

For wells in the AOR which are improperly sealed, completed, or abandoned, the applicant shall develop a Corrective Action Plan (CAP) consisting of the steps or modifications that are necessary to prevent movement of fluid into USDWs.

The CAP will be incorporated into the Permit as APPENDIX F and become binding on the permittee.

PART V. Well Operation Requirements (40 CFR 146.23)

TABLE 5.1
INJECTION ZONE PRESSURES
Federal 15-8-9-18

Formation Name	Depth Used to Calculate MAIP (ft)	Fracture Gradient (psi/ft)	Initial MAIP (psi)
Green River	5,346	0.690	1,335

Approved Injection Fluid

The approved injection fluid is limited to Class II injection well fluids pursuant to 40 CFR § 144.6(b). For disposal wells injecting water brought to the surface in connection with natural gas storage operations, or conventional oil or natural gas production, the fluid may be commingled and the well used to inject other Class II wastes such as drilling fluids and spent well completion, treatment and stimulation fluid. Injection of non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes, and vacuum truck and drum rinsate from trucks and drums transporting or containing non-exempt waste, is prohibited.

The proposed injectate shall be a blend of culinary quality water from the Johnson Water District reservoir and/or water from thre Green River pipeline, and produced water from Green River Formation oil wells proximate to the Federal No. 15-8-9-8.

Injection Pressure Limitation

Injection pressure, measured at the wellhead, shall not exceed a maximum calculated to assure that the pressure used during injection does not initiate new fractures or propagate existing fractures in the confining zones adjacent to the USDWs.

Please note that EPA made minor corrections to Appendix B of the Draft Permit to remove unnecessary testing requirements related to the MAIP.

The applicant submitted injection fluid density and injection zone data which was used to calculate a formation fracture pressure and to determine the maximum allowable injection pressure (MAIP), as measured at the surface, for this Permit.

TABLE 5.1 lists the fracture gradient for the injection zone and the approved MAIP, determined according to the following formula:

$$FP = [fg - (0.433 * sg)] * d$$

FP = formation fracture pressure (measured at surface)
fg = fracture gradient (from submitted data or tests)
sg = specific gravity (of injected fluid)
d = depth to top of injection zone (or top perforation)

Injection Volume Limitation

Cumulative injected fluid volume limits are set to assure that injected fluids remain within the boundary of the exempted area. Cumulative injected fluid volume is limited when injection occurs into an aquifer that has been exempted from protection as a USDW.

There will be no restrictions on the cumulative volume or daily volume of authorized Class II fluid to be injected into the approved Green River Formation interval. The permittee will not exceed the maximum authorized surface injection pressure.

Mechanical Integrity (40 CFR 146.8)

An injection well has mechanical integrity if:

1. there is no significant leak in the casing, tubing, or packer (Part I); and
2. there is no significant fluid movement into a USDW through vertical channels adjacent to the injection well bore (Part II).

The Permit prohibits injection into a well which lacks mechanical integrity.

The Permit requires that the well demonstrate mechanical integrity prior to injection and periodically thereafter. A demonstration of mechanical integrity includes both internal (Part I) and external (Part II). The methods and frequency for demonstrating Part I and Part II mechanical integrity are dependent upon well-specific conditions as explained below.

Well construction and site-specific conditions dictate the following requirements for Mechanical Integrity (MI) demonstrations:

PART I MI: Internal MI will be demonstrated prior to beginning injection. Since this well is constructed with a standard casing, tubing, and packer configuration, a successful mechanical integrity test (MIT) is required to take place at least once every five (5) years. A demonstration of Part I MI is also required prior to resuming injection following any workover operation that affects the casing, tubing or packer. Part I MI may be demonstrated by a standard tubing-casing annulus pressure test using the maximum permitted injection pressure or 1000 psi, which ever is less, with a ten (10) percent or less pressure loss over thirty (30) minutes.

PART II MI: As no CBL exists from which to determine the presence of annulus cement to meet minimum requirements needed to demonstrate zone isolation (at least 18 feet of continuous 80% bond, or better) through the Confining Zone, a CBL shall be run prior to authorization to commence injection. If the CBL does not identify at least eighteen (18) feet of 80% bond index cement bond within the Confining Zone further demonstration of Part II mechanical integrity shall be required. The Part II MI demonstration shall be by Radioactive Tracer Survey or other approved test prior to injection and at least once within each five (5) year period following the last successful MI test. Approved tests for demonstrating Part II MI include a Temperature Survey, Noise Log or Oxygen Activation Log.

PART VI. Monitoring, Recordkeeping and Reporting Requirements

Injection Well Monitoring Program

At least once a year the permittee must analyze a sample of the injected fluid for total dissolved solids (TDS), specific conductivity, pH, and specific gravity. This analysis shall be reported to EPA annually as part of the Annual Report to the Director. Any time a new source of injected fluid is added, a fluid analysis shall be made of the new source.

Instantaneous injection pressure, injection flow rate, cumulative fluid volume and TCA pressures must be observed on a weekly basis. A recording, at least once every thirty (30) days, must be made of the injection pressure, annulus pressure, monthly injection flow rate and cumulative fluid volume. This information is required to be reported annually as part of the Annual Report to the Director.

PART VII. Plugging and Abandonment Requirements (40 CFR 146.10)

Plugging and Abandonment Plan

Prior to abandonment, the well shall be plugged in a manner that isolates the injection zone and prevents movement of fluid into or between USDWs, and in accordance with any applicable Federal, State or local law or regulation. Tubing, packer and other downhole apparatus shall be removed. Cement with additives such as accelerators and retarders that control or enhance cement properties may be used for plugs; however, volume-extending additives and gel cements

are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.6 lb/gal shall be placed between all plugs. A minimum 50 ft surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging the owner or operator shall submit Plugging Record (EPA Form 7520 13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. The plugging and abandonment plan is described in Appendix E of the Permit.

The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluid into or between USDWs and in accordance with other applicable Federal, State or local law or regulation. Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs. However, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. Within sixty (60) days after plugging, the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

PLUG NO. 1: Seal Injection Zone: Set a cast iron bridge plug (CIBP) no more than fifty (50) feet above the top injection perforation. Place at least twenty (20) feet of cement plug on top of the CIBP.

PLUG NO. 2: Seal Mahogany Shale and Trona intervals: Squeeze a cement plug on the backside of the 5-1/2 inch casing across the Trona Zone and the Mahogany Shale approximately 2730 feet to 2890 feet (unless pre-existing backside cement precludes cement-squeezing this interval) followed by a minimum 160-foot balanced cement plug inside the 5-1/2 inch casing across the Trona Zone and the Mahogany Shale, approximately 2730 feet to 2890 feet.

PLUG NO. 3: Seal USDWs: Squeeze a cement plug (1250 feet - 1350 feet) on the backside of the 5-1/2 inch casing across the base of the Uinta formation (unless pre-existing backside cement precludes cement-squeezing this interval), followed by a minimum 100-foot balanced cement plug inside the 5-1/2 inch casing across the base of the Uinta Formation, approximately 1250 feet to 1350 feet.

PLUG NO.4: Seal Surface: Set a Class "G" cement plug within the 5-1/2 inch casing to 500 feet and up the 5-1/2 inch by 8-5/8 inch casings annulus to the surface.

PART VIII. Financial Responsibility (40 CFR 144.52)

Demonstration of Financial Responsibility

The permittee is required to maintain financial responsibility and resources to close, plug, and abandon the underground injection operation in a manner prescribed by the Director. The permittee shall show evidence of such financial responsibility to the Director by the submission of a surety bond, or other adequate assurance such as financial statements or other materials acceptable to the Director. The Regional Administrator may, on a periodic basis, require the holder of a lifetime permit to submit a revised estimate of the resources needed to plug and abandon the well to reflect inflation of such costs, and a revised demonstration of financial responsibility if necessary. Initially, the operator has chosen to demonstrate financial responsibility with:

A June 27, 2008 demonstration of Financial Responsibility in the amount of $59,344 has been provided.

The Director may revise the amount required, and may require the Permittee to obtain and provide updated estimates of plugging and abandonment costs according to the approved Plugging and Abandonment Plan.

Financial Statement, received May 16, 2008

Evidence of continuing financial responsibility is required to be submitted to the Director annually.

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

5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-16540
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME: SUNDANCE UNIT
8. WELL NAME and NUMBER: FEDERAL 15-8-9-18
9. API NUMBER: 4304731547
10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE

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 [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER 435.646.3721

4. LOCATION OF WELL:
FOOTAGES AT SURFACE: 660 FSL 1977 FEL COUNTY: UINTAH
OTR/OTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE, 8, T9S, R18E STATE: UT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
[ ] NOTICE OF INTENT (Submit in Duplicate)	[ ] ACIDIZE	[ ] DEEPEN	[ ] REPERFORATE CURRENT FORMATION
Approximate date work will	[ ] ALTER CASING	[ ] FRACTURE TREAT	[ ] SIDETRACK TO REPAIR WELL
	[ ] CASING REPAIR	[ ] NEW CONSTRUCTION	[ ] TEMPORARITLY ABANDON
	[ ] CHANGE TO PREVIOUS PLANS	[ ] OPERATOR CHANGE	[ ] TUBING REPAIR
	[ ] CHANGE TUBING	[ ] PLUG AND ABANDON	[ ] VENT OR FLAIR
[X] SUBSEQUENT REPORT (Submit Original Form Only)	[ ] CHANGE WELL NAME	[ ] PLUG BACK	[ ] WATER DISPOSAL
Date of Work Completion:	[ ] CHANGE WELL STATUS	[ ] PRODUCTION (START/STOP)	[ ] WATER SHUT-OFF
03/21/2009	[ ] COMMINGLE PRODUCING FORMATIONS	[ ] RECLAMATION OF WELL SITE	[ ] OTHER: -
	[ ] CONVERT WELL TYPE	[X] RECOMPLETE - DIFFERENT FORMATION	

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

The above subject well was recompleted and then placed back on production, attached is a daily recompletion status report. The following perforations were added in the Green River Formation:
D2 4595'-4613' 4 JSPF 72 holes
CP1 5346'-5367' reperf
CP2 5406'-5430' reperf
CP4 5522'-5528' 4 JSPF 24 holes
CP4 5534'-5542' 4 JSPF 32 holes
CP5 5572'-5578' 4 JSPF 24 holes

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY

NAME (PLEASE PRINT) Jentri Park TITLE Production Tech

SIGNATURE [signature] DATE 04/16/2009

(This space for State use only)

RECEIVED
APR 20 2009
DIV. OF OIL, GAS & MINING

Daily Activity Report

Format For Sundry

FEDERAL 15-8-9-18

1/1/2009 To 5/30/2009

3/3/2009 Day: 1 **Recompletion**

Leed #731 on 3/2/2009 - MIRUSU. RU HO trk & pump 50 BW down annulus @ 250°F. RD pumping unit. Unseat pump. Flush tbg & rods W/ 45 BW @ 250°F (85 total down well circulated oil). Soft seat pump & test tbg to 3000 psi w/ 2 bbls water. TOOH w/ 8', 6' x 3/4" pony rods, 83- 7/8" guided rods, 12- 3/4" guided rods, 120- 3/4" plain rods. LD pump 2-1/2" x 1-1/2" x 16' RHAC (pump stuck open w/ scale on strainer nipple). Spear tbg due to bad threads on wrap around. Well head tested bad between surface & 5-1/2". TIH w/ 200' of tbg to tag fill @ 5690'. TOOH w/ tbg. A little scale on outside of tbg. 140 jts out SIFN.

3/4/2009 Day: 2 **Recompletion**

Leed #731 on 3/3/2009 - Open well w/ 50 psi on casing. Continue TOOH w/ tbg. RU 4-3/4" used bit & 5-1/2" scraper. TIH w/ tbg to tag fill @ 5690'. C/O to 5713' (hard sand). Circulate KCL water. TOOH w/ tbg. RU 5-1/2" "TS" RBP & set sleeve. TIH w/ tbg to set RBP @ 4570'. Casing won't test to 1000 psi. Pressure to 600 psi @ 3/4bpm. Bled of to 250 psi in less than a minute. Move RBP to 4508'. Same bled off as before. Isolate well next 3 times trying to test (all the same). TOOH w/ tbg. 40 jts left SIFN.

3/5/2009 Day: 3 **Recompletion**

Leed #731 on 3/4/2009 - Open well w/ 0 psi on casing. RU Hot Oiler & circulate well w/ 50 bbls water @ 220°. TOOH w/ tbg. RD retrieving head. PU Retrieving head, Arrow set 1 pkr, 1 jt, SN. TIH w/ 9 sds & set pkr & 600'. Pressure casing to 700 psi. Continue TOOH w/ tbg. 2500' casing tested below but won't test above to 1000 psi. Found hole in casing @ 1284'-1314'. Dig up surface casing valve. Circulate 15 bbls of oil off annulus @ 1 bpm @ 350 psi. TIH w/ tbg & retrieved RBP @ 4508'. TOOH w/ tbg. Set RBP @ 1393'. Spot 3 sxs of 20/40 sand on RBP. TIH & tag 12' of sand. TOOH w/ tbg. LD tools. PU Weatherford 5-1/2" Cast Iron Cement Retainer, 1 jt tbg, SN. TIH w/ 37 jts tbg. Leave retainer hang @ 1160'. SIFN.

3/6/2009 Day: 4 **Recompletion**

Leed #731 on 3/5/2009 - Open well w/ 0 psi on casing. TIH w/ tbg & set CICR @ 1223'. Pressure 5-1/2" casing to 700 psi (good test). RU BJ cementers. Establsh rate @ 1 bpm @ 790 psi for 5 bbls (circulation after 3 bbls about 1/2 bpm returns). Close 8-5/8" casing valve. Establish rate of 1 bpm @ 950 psi for 2 bbls. Shut down & mix cement. Start 15.8 ppg of cement @ .8 bpm @ 479 psi. Pumped 401 sxs of Class G Neat cement in 97.5 bbls of fresh water @ ave rate of 1 bpm w/ ave 15.8 ppg w/ 1/2 bpm returns during job up 8/5/8" casing. Shut down & clean up trucks. Displace 6.5 bbls water @ .8 bpm @ 445 psi w/ 8-5/8" casing valve closed. ISIP 250. 1 minute later 0 psi. Returned 35 bbls during job (black colored water). TOOH w/ 2 jts tbg & reverse tbg clean. RD BJ Services. TOOH w/ 2 jts & leave tbg hang over night w/ EOT @ 1100'. SIFN.

3/7/2009 Day: 5 **Recompletion**

Leed #731 on 3/6/2009 - Open well w/ 0 psi on casing. TOOH w/ tbg. PU 4-3/4" new Smith rock bit, 6- 3-1/8" drill collars, 1 jt SN, jts tbg & tag cement @ 1200' (23' of cement). RU swivel, pump & tanks. Drlg cement to CICR @ 1223'. Drlg out retainer for 6 hours. Made 12" on CICR & lost cone on bit. TOOH w/ 32 jts tbg & 6- 3-1/8" collars. SIFN.

3/10/2009 Day: 6 **Recompletion**

Leed #731 on 3/9/2009 - Open well w/ 0 psi on casing. RU Magnet. RIH w/ sand line. First 3 runs had lots of metal slips & shavings. 5th run had the cone. Made 2 more runs to clean metal out. Still missing cone shank. RD Magnet. RU 4-3/4" new Smith rock bit, 6- 3-1/8" drill collars. TIH w/ 33 jts tbg to tag CICR. Drlg on retainer (5 hours). Made 7 foot of cement in 2 hours. SIFN.

3/11/2009 Day: 7 **Recompletion**

Leed #731 on 3/10/2009 - Open well w/ 0 psi on casing. TOOH w/ tbg. RD bit. RU new 4-3/4" Smith rock bit. TIH w/ tbg. Drlg on cement. 1314' closed BOP & tested casing to 500 psi. Lost 55 psi in 30 min. Pressure to 1000 psi. Lost 350 psi in 5 minutes. Went back to drlg & C/O to RBP @ 1393'. SIFN.

3/12/2009 Day: 8 **Recompletion**

Leed #731 on 3/11/2009 - Open well w/ 0 psi on casing. TOOH w/ tbg. LD collars, bit sub, bit. RU retrieving sleave. TIH w/ tbg & released RBP. TIH to 5299' & set RBP. Test casing to 400 psi. Circulate KCL water. Released RBP & TOOH. RU Perforators LLC. WLT. RIH w/ 3-1/8" Slick Guns (19 gram, .49"EH, 120°) & perforate CP5 sds @ 5571-5578', CP4 sds @ 5522-5528', 5534-5542', CP2 sds @ 5406-5430', CP1 sds @ 5352-5367' D2 sds @ 4595-4613' w/ 4 spf for total of 312 shots in 2 runs. RD WLT. PU Weatherford 5-1/2" "TS" RBP, setting sleave, 2-3/8" X 6' pup joint, "HD" pkr. PU 2-7/8", N-80, 6.5# 8EUE frac string, 48 jts tbg. SIFN.

3/13/2009 Day: 9 **Recompletion**

Leed #731 on 3/12/2009 - Open well w/ 0 psi on casing. Continue PU frac string & tally in hole. Set RBP @ 4648'. Set pkr @ 4640'. Test tools. Release pkr & reset @ 4578'. D2 sds broke down @ 2800 psi back to 2000 psi @ 1bpm for 3 bbls, ISIP was 1200. Release pkr. TIH w/ tbg & release RBP. TIH w/ tbg & reset RBP @ 5383'. Set pkr @ 5306'. Break down CP1 sds @ 400 psi back to 400 psi w/ 1 bpm for 3 bbls, ISIP was 100. Release pkr. TIH w/ tbg & release RBP. TIH w/ tbg & set RBP @ 5441'. Set pkr @ 5401'. CP2 sds broke down @ 1000 psi back to 1000 psi @ 1 bpm for 3 bbls, ISIP was 600. Release pkr. TIH w/ tbg & release RBP. TIH w/ tbg & set RBP @ 5556'. Set pkr @ 5494'. CP4 sds broke down @ 3300 psi back to 1400 psi w/ 1 bpm for 3 bbls, ISIP was 800. Release pkr. TIH w/ tbg @ release RBP. TIH w/ tbg & releases RBP & set @ 5639'. Set pkr @ 5558'. CP5 sds broke down @ 4500 psi back to 1400 psi w/ 1 bpm for 3 bbls, ISIP was 1100. Release pkr TOOH w/ 5 jts tbg. RU frac valve. SIFN.

3/14/2009 Day: 10 **Recompletion**

Leed #731 on 3/13/2009 - RU BJ Services. 400 psi on well. Frac CP4 sds w/ 45,053#'s of 20/40 sand in 425 bbls of Lightning 17 fluid. Broke @ 1880 psi. Treated w/ ave pressure of 3538 psi w/ ave rate of 15.8 BPM. ISIP 1295 psi. Open well to flattank for immediate flowback @ approx. 3 bpm. Well flowed for 85 min, Recovered 200 bbls. Release tools. See day10b. Set TS plug @ 5472' & HD pkr. @ 5311. RU BJ Services. 40 psi on well. Frac CP1/CP2 sds w/ 125,429#'s of 20/40 sand in 1116 bbls of Lightning 17 fluid. Broke @ 1201 psi. Treated w/ ave pressure of 3139 psi w/ ave rate of 16.4 BPM. ISIP 1490 psi. Open well to flattank for immediate flowback @ approx. 3 bpm. Well flowed for 180 min, Recovered 430 bbls. SWIFN.

3/18/2009 Day: 12 **Recompletion**

Leed #731 on 3/17/2009 - RIH w/ swab. SFL @ 50'. Made 7 runs. Recovered 140 bbls. EFL @ 800'. Trace of oil & sand. RD swab. RIH w/ tbg. Tag fill @ 5705'. C/O to 5792'. Circulate well clean. LD 5 jts 2 7/8" tbg. ND BOP. Set TAC @ 5536' w/ 15,000# tension. NU wellhead. X-

over for rods. Flush tbg. w/ 60 bbls water. RIH w/ Central Hydraulics 2 1/2" x 1 3/4" x 20' RHAC rod pump, 6- 1 1/2" weight bars, 20- 3/4" guided rods, 97- 3/4" slick rods, 100- 7/8" guided rods, 1 1/2" x 26' polished rod. Seat pump. Stroke test to 800 psi. RU pumping unit. Hang off rods. RD. Did not put on production due to surface issues. SWIFN.

3/22/2009 Day: 13 **Recompletion**

Rigless on 3/21/2009 - Place well on production @ 3-21-09. 5 spm, 98" stroke length. Final Report.

3/17/2009 Day: 16 **Recompletion**

Leed #731 on 3/16/2009 - Release tools. Set TS plug @ 4649' & HD pkr. @ 4552' w/ EOT @ 4564'. RU BJ Services. 225 psi on well. Frac D2 sds w/ 87,358#'s of 20/40 sand in 748 bbls of Lightning 17 fluid. Broke @ 4106 psi. Treated w/ ave pressure of 3105 psi w/ ave rate of 16.2 BPM. ISIP 2099 psi. Open well to flattank for immediate flowback @ approx. 3 bpm. Well flowed for 155 min. Recovered 370 bbls. Release pkr. RIH w/ tbg. Tag sand @ 4637'. C/O to TS plug @ 4649'. POOH w/ tbg., laying down workstring on trailer. RIH w/ 2 7/8" notched collar, 2 jts 2 7/8" tbg., PSN, 1 jt 2 7/8" tbg., 5 1/2" TAC & 178 jts 2 7/8" tbg. SWIFN.

Pertinent Files: Go to File List

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8
1595 WYNKOOP STREET
DENVER, CO 80202-1129
http://www.epa.gov/region8

AUG 1 8 2010

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

Eric Sundberg
Newfield Production Company
1001 Seventeenth Street, Suite 2000
Denver, CO 80202

Re: Final Permit
EPA UIC Permit UT21149-07848
Federal 15-8-9-18
SWSE Sec. 8-T9S-R18E
Uintah County, Utah
API No.: 43-047-31547

Dear Mr. Sundberg:

Enclosed is your copy of the FINAL Underground Injection Control (UIC) Permit for the proposed Federal 15-8-9-18 injection well. A Statement of Basis that discusses the conditions and requirements of this EPA UIC Permit, is also included.

The Public Comment period for this Permit ended on AUG 0 9 2010. No comments on the Draft Permit were received during the Public Notice period; therefore the Effective Date for this EPA UIC Permit is the date of issuance. All conditions set forth herein refer to Title 40 Parts 124, 144, 146, and 147 of the Code of Federal Regulations (CFR) and are regulations that are in effect as of the Effective Date of this Permit.

Please note that under the terms and conditions of this Final Permit you are authorized only to construct the proposed injection well. Prior to commencing injection, you first must fulfill all "Prior to Commencing Injection" requirements of the Final Permit, Part II Section C.1, and obtain written Authorization to Inject from the EPA. It is your responsibility to be familiar with and to comply with all provisions of your Final Permit. The EPA forms referenced in the permit are available at http://www.epa.gov/safewater/uic/reportingforms.html. Guidance documents for Cement Bond Logging, Radioactive Tracer testing, Step Rate testing, Mechanical Integrity demonstration, Procedure in the Event of a Mechanical Integrity Loss, and other UIC guidances, are available at http://www.epa.gov/region8/water/uic/ deep_injection.html. Upon request, hard copies of the EPA forms and guidances can be provided.

RECEIVED
SEP 0 1 2010
DIV. OF OIL, GAS & MINING

This EPA UIC Permit is issued for the operating life of the well unless terminated (Part III, Section B). The EPA may review this Permit at least every five (5) years to determine whether any action is warranted pursuant to 40 CFR § 144.36(a).

If you have any questions on the enclosed Final Permit or Statement of Basis, please call Emmett Schmitz of my staff at (303) 312-6174, or toll-free at (800) 227-8917, ext. 312-6174.

Sincerely,

for

Stephen S. Tuber
Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

enclosure: Final UIC Permit
Statement of Basis

cc: Letter only:

Uintah & Ouray Business Committee, Ute Indian Tribe:
Curtis Cesspooch, Chairman
Frances Poowegup, Vice-Chairwoman
Irene Cuch, Councilwoman
Stewart Pike, Councilman
Philip Chimburas, Councilman
Richard Jenks,Jr., Councilman

Daniel Picard, Superintendent
Uintah & Ouray Indian Agency
U.S. Bureau of Indian Affairs

cc: all enclosures:

Michael Guinn
District Manager
Newfield Production Company
Myton, Utah

Mike Natchees
Environmental Coordinator
Ute Indian Tribe

Manual Myore
Director
Energy & Minerals Dept.
Ute Undian Tribe

Brad Hill
Acting Associate Director
State of Utah - Natural Resources

Fluid Minerals Engineering Dept.
U.S. Bureau of Land Management
Vernal, Utah

EPA

UNDERGROUND INJECTION CONTROL PROGRAM

PERMIT

PREPARED: August 2010

Permit No. UT21149-07848

Class II Enhanced Oil Recovery Injection Well

Federal 15-8-9-18
Uintah County, UT

Issued To

Newfield Production Co.
1001 Seventeenth Street, Suite 2000
Denver, CO 80202

Part I. AUTHORIZATION TO CONSTRUCT AND OPERATE

Under the authority of the Safe Drinking Water Act and Underground Injection Control (UIC) Program regulations of the U. S. Environmental Protection Agency (EPA) codified at Title 40 of the Code of Federal Regulations (40 CFR) Parts 2, 124, 144, 146, and 147, and according to the terms of this Permit,

Newfield Production Co.
1001 Seventeenth Street, Suite 2000
Denver, CO 80202

is authorized to construct and to operate the following Class II injection well or wells:

Federal 15-8-9-18
660'FSL & 1977'FEL., SWSE S8, T9S, R18E
Uintah County, UT

EPA regulates the injection of fluids into injection wells so that injection does not endanger underground sources of drinking water (USDWs). EPA UIC Permit conditions are based on authorities set forth at 40 CFR Parts 144 and 146, and address potential impacts to USDWs.

Under 40 CFR Part 144, Subpart D, certain conditions apply to all UIC Permits and may be incorporated either expressly or by reference. General permit conditions for which the content is mandatory and not subject to site-specific differences are not discussed in this document. Issuance of this Permit does not convey any property rights of any sort or any exclusive privilege, nor does it authorize injury to persons or property or invasion of other private rights, or any infringement of other Federal, State or local laws or regulations. (40 CFR §144.35) An EPA UIC Permit may be issued for the operating life of the injection well or project unless terminated for reasonable cause under 40 CFR §§144.39, 144.40 and 144.41, and may be reviewed at least once every five (5) years to determine if action is required under 40 CFR §144.36(a).

This Permit is issued for the life of the well(s) unless modified, revoked and reissued, or terminated under 40 CFR 144.39 or 144.40. This EPA Permit may be adopted, modified, revoked and reissued, or terminated if primary enforcement authority for a UIC Program is delegated to an Indian Tribe or State. Upon the effective date of delegation, reports, notifications, questions and other correspondence should be directed to the Indian Tribe or State Director.

Issue Date: AUG 18 2010 Effective Date AUG 18 2010

for

Stephen S. Tuber
Assistant Regional Administrator*
Office of Partnerships and Regulatory Assistance

*NOTE: The person holding this title is referred to as the "Director" throughout this Permit.

PART II. SPECIFIC PERMIT CONDITIONS

Section A. WELL CONSTRUCTION REQUIREMENTS

These requirements represent the approved minimum construction standards for well casing and cement, injection tubing, and packer.

Details of the approved well construction plan are incorporated into this Permit as APPENDIX A. Changes to the approved plan that may occur during construction must be approved by the Director prior to being physically incorporated.

1. Casing and Cement.

The well or wells shall be cased and cemented to prevent the movement of fluids into or between underground sources of drinking water. The well casing and cement shall be designed for the life expectancy of the well and of the grade and size shown in APPENDIX A. Remedial cementing may be required if shown to be inadequate by cement bond log or other attempted demonstration of Part II (External) mechanical integrity.

2. Injection Tubing and Packer.

Injection tubing is required, and shall be run and set with a packer at or below the depth indicated in APPENDIX A. The packer setting depth may be changed provided it remains below the depth indicated in APPENDIX A and the Permittee provides notice and obtains the Director's approval for the change.

3. Sampling and Monitoring Devices.

The Permittee shall install and maintain in good operating condition:

(a) a "tap" at a conveniently accessible location on the injection flow line between the pump house or storage tanks and the injection well, isolated by shut-off valves, for collection of representative samples of the injected fluid; and

(b) one-half (1/2) inch female iron pipe fitting, isolated by shut-off valves and located at the wellhead at a conveniently accessible location, for the attachment of a pressure gauge capable of monitoring pressures ranging from normal operating pressures up to the Maximum Allowable Injection Pressure specified in APPENDIX C:

  (i) on the injection tubing; and

  (ii) on the tubing-casing annulus (TCA); and

(c) a pressure actuated shut-off device attached to the injection flow line set to shut-off the injection pump when or before the Maximum Allowable Injection Pressure (MAIP) specified in APPENDIX C is reached at the wellhead; and

(d) a non-resettable cumulative volume recorder attached to the injection line.

4. Well Logging and Testing

Well logging and testing requirements are found in APPENDIX B. The Permittee shall ensure the log and test requirements are performed within the time frames specified in APPENDIX B. Well logs and tests shall be performed according to current EPA-approved procedures. Well log and test results shall be submitted to the Director within sixty (60) days of completion of the logging or testing activity, and shall include a report describing the methods used during logging or testing and an interpretation of the test or log results.

5. Postponement of Construction or Conversion

The Permittee shall complete well construction within one year of the Effective Date of the Permit, or in the case of an Area Permit within one year of Authorization of the additional well. Authorization to construct and operate shall expire if the well has not been constructed within one year of the Effective Date of the Permit or Authorization and the Permit may be terminated under 40 CFR 144.40, unless the Permittee has notified the Director and requested an extension prior to expiration. Notification shall be in writing, and shall state the reasons for the delay and provide an estimated completion date. Once Authorization has expired under this part, the complete permit process including opportunity for public comment may be required before Authorization to construct and operate may be reissued.

6. Workovers and Alterations

Workovers and alterations shall meet all conditions of the Permit. Prior to beginning any addition or physical alteration to an injection well that may significantly affect the tubing, packer or casing, the Permittee shall give advance notice to the Director and obtain the Director's approval. The Permittee shall record all changes to well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workover, logging, or test data to EPA within sixty (60) days of completion of the activity.

A successful demonstration of Part I MI is required following the completion of any well workover or alteration which affects the casing, tubing, or packer. Injection operations shall not be resumed until the well has successfully demonstrated mechanical integrity and the Director has provided written approval to resume injection.

Section B. MECHANICAL INTEGRITY

The Permittee is required to ensure each injection well maintains mechanical integrity at all times. The Director, by written notice, may require the Permittee to comply with a schedule describing when mechanical integrity demonstrations shall be made.

An injection well has mechanical integrity if:

(a) There is no significant leak in the casing, tubing, or packer (Part I); and

(b) There is no significant fluid movement into an underground source of drinking water through vertical channels adjacent to the injection well bore (Part II).

1. Demonstration of Mechanical Integrity (MI).

The operator shall demonstrate MI prior to commencing injection and periodically thereafter. Well-specific conditions dictate the methods and the frequency for demonstrating MI and are discussed in the Statement of Basis. The logs and tests are designed to demonstrate both internal (Part I) and external (Part II) MI as described above. The conditions present at this well site warrant the methods and frequency required in Appendix B of this Permit.

In addition to these regularly scheduled demonstrations of MI, the operator shall demonstrate internal (Part I) MI after any workover which affects the tubing, packer or casing.

The Director may require additional or alternative tests if the results presented by the operator are not satisfactory to the Director to demonstrate there is no movement of fluid into or between USDWs resulting from injection activity. Results of MI tests shall be submitted to the Director as soon as possible but no later than sixty (60) days after the test is complete.

2. Mechanical Integrity Test Methods and Criteria

EPA-approved methods shall be used to demonstrate mechanical integrity. Ground Water Section Guidance No. 34 "Cement Bond Logging Techniques and Interpretation", Ground Water Section Guidance No. 37, "Demonstrating Part II (External) Mechanical Integrity for a Class II injection well permit", and Ground Water Section Guidance No. 39, "Pressure Testing Injection Wells for Part I (Internal) Mechanical Integrity" are available from EPA and will be provided upon request.

The Director may stipulate specific test methods and criteria best suited for a specific well construction and injection operation.

3. Notification Prior to Testing.

The Permittee shall notify the Director at least 30 days prior to any scheduled mechanical integrity test. The Director may allow a shorter notification period if it would be sufficient to enable EPA to witness the mechanical integrity test. Notification may be in the form of a yearly or quarterly schedule of planned mechanical integrity tests, or it may be on an individual basis.

4. Loss of Mechanical Integrity.

If the well fails to demonstrate mechanical integrity during a test, or a loss of mechanical integrity becomes evident during operation (such as presence of pressure in the TCA, water flowing at the surface, etc.), the Permittee shall notify the Director within 24 hours (see Part III Section E Paragraph 11(e) of this Permit) and the well shall be shut-in within 48 hours unless the Director requires immediate shut-in.

Within five days, the Permittee shall submit a follow-up written report that documents test results, repairs undertaken or a proposed remedial action plan.

Injection operations shall not be resumed until after the well has successfully been repaired and demonstrated mechanical integrity, and the Director has provided approval to resume injection.

Section C. WELL OPERATION

INJECTION BETWEEN THE OUTERMOST CASING PROTECTING UNDERGROUND SOURCES OF DRINKING WATER AND THE WELL BORE IS PROHIBITED.

Injection is approved under the following conditions:

1. Requirements Prior to Commencing Injection.

Well injection, including for new wells authorized by an Area Permit under 40 CFR 144.33 (c), may commence only after all well construction and pre-injection requirements herein have been met and approved. The Permittee may not commence injection until construction is complete, and

(a) The Permittee has submitted to the Director a notice of completion of construction and a completed EPA Form 7520-10 or 7520-12; all applicable logging and testing requirements of this Permit (see APPENDIX B) have been fulfilled and the records submitted to the Director; mechanical integrity pursuant to 40 CFR 146.8 and Part II Section B of this Permit has been demonstrated; and

(i) The Director has inspected or otherwise reviewed the new injection well and finds it is in compliance with the conditions of the Permit; or

(ii) The Permittee has not received notice from the Director of his or her intent to inspect or otherwise review the new injection well within 13 days of the date of the notice in Paragraph 1a, in which case prior inspection or review is waived and the Permittee may commence injection.

2. Injection Interval.

Injection is permitted only within the approved injection interval, listed in APPENDIX C. Additional individual injection perforations may be added provided that they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6.

3. Injection Pressure Limitation

(a) The permitted Maximum Allowable Injection Pressure (MAIP), measured at the wellhead, is found in APPENDIX C. Injection pressure shall not exceed the amount the Director determines is appropriate to ensure that injection does not initiate new fractures or propagate existing fractures in the confining zone adjacent to USDWs. In no case shall injection pressure cause the movement of injection or formation fluids into a USDW.

(b) The Permittee may request a change of the MAIP, or the MAIP may be increased or decreased by the Director in order to ensure that the requirements in Paragraph (a) above are fulfilled. The Permitee may be required to conduct a step rate injection test or other suitable test to provide information for determining the fracture pressure of the injection zone. Change of the permitted MAIP by the Director shall be by modification of this Permit and APPENDIX C.

4. Injection Volume Limitation.

Injection volume is limited to the total volume specified in APPENDIX C.

5. Injection Fluid Limitation.

Injected fluids are limited to those identified in 40 CFR 144.6(b)(2) as fluids used for enhanced recovery of oil or natural gas, including those which are brought to the surface in connection with conventional oil or natural gas production that may be commingled with waste waters from gas plants which are an integral part of production operations unless those waters are classified as a hazardous waste at the time of injection, pursuant to 40 CFR 144.6(b). Non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes and vacuum truck wastes, are NOT approved for injection. This well is NOT approved for commercial brine injection, industrial waste fluid disposal or injection of hazardous waste as defined by CFR 40 Part 261. The Permittee shall provide a listing of the sources of injected fluids in accordance with the reporting requirements in Part II Section D Paragraph 4 and APPENDIX D of this Permit.

6. Tubing-Casing Annulus (TCA)

The tubing-casing annulus (TCA) shall be filled with water treated with a corrosion inhibitor, or other fluid approved by the Director. The TCA valve shall remain closed during normal operating conditions and the TCA pressure shall be maintained at zero (0) psi.

If TCA pressure cannot be maintained at zero (0) psi, the Permittee shall follow the procedures in Ground Water Section Guidance No. 35 "Procedures to follow when excessive annular pressure is observed on a well."

Section D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS

1. Monitoring Parameters, Frequency, Records and Reports.

Monitoring parameters are specified in APPENDIX D. Pressure monitoring recordings shall be taken at the wellhead. The listed parameters are to be monitored, recorded and reported at the frequency indicated in APPENDIX D even during periods when the well is not operating.

Monitoring records must include:

(a) the date, time, exact place and the results of the observation, sampling, measurement, or analysis, and;

(b) the name of the individual(s) who performed the observation, sampling, measurement, or analysis, and;

(c) the analytical techniques or methods used for analysis.

2. Monitoring Methods.

(a) Monitoring observations, measurements, samples, etc. taken for the purpose of complying with these requirements shall be representative of the activity or condition being monitored.

(b) Methods used to monitor the nature of the injected fluids must comply with analytical methods cited and described in Table 1 of 40 CFR 136.3 or Appendix III of 40 CFR 261, or by other methods that have been approved in writing by the Director.

(c) Injection pressure, annulus pressure, injection rate, and cumulative injected volumes shall be observed and recorded at the wellhead under normal operating conditions, and all parameters shall be observed simultaneously to provide a clear depiction of well operation.

(d) Pressures are to be measured in pounds per square inch (psi).

(e) Fluid volumes are to be measured in standard oil field barrels (bbl).

(f) Fluid rates are to be measured in barrels per day (bbl/day).

3. Records Retention.

(a) Records of calibration and maintenance, and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained for a period of AT LEAST THREE (3) YEARS from the date of the sample, measurement, report, or application. This period may be extended anytime prior to its expiration by request of the Director.

(b) Records of the nature and composition of all injected fluids must be retained until three (3) years after the completion of any plugging and abandonment (P&A) procedures specified under 40 CFR 144.52(a)(6) or under Part 146 Subpart G, as appropriate. The Director may require the Permittee to deliver the records to the Director at the conclusion of the retention period. The Permittee shall continue to retain the records after the three (3) year retention period unless the Permittee delivers the records to the Director or obtains written approval from the Director to discard the records.

4. Annual Reports.

Whether the well is operating or not, the Permittee shall submit an Annual Report to the Director that summarizes the results of the monitoring required by Part II Section D and APPENDIX D.

The first Annual Report shall cover the period from the effective date of the Permit through December 31 of that year. Subsequent Annual Reports shall cover the period from January 1 through December 31 of the reporting year. Annual Reports shall be submitted by February 15 of the year following data collection. EPA Form 7520-11 may be copied and shall be used to submit the Annual Report, however, the monitoring requirements specified in this Permit are mandatory even if EPA Form 7520-11 indicates otherwise.

Section E. PLUGGING AND ABANDONMENT

1. Notification of Well Abandonment, Conversion or Closure.

The Permittee shall notify the Director in writing at least forty-five (45) days prior to: 1) plugging and abandoning an injection well, 2) converting to a non-injection well, and 3) in the case of an Area Permit, before closure of the project.

2. Well Plugging Requirements

Prior to abandonment, the injection well shall be plugged with cement in a manner which isolates the injection zone and prevents the movement of fluids into or between underground sources of drinking water, and in accordance with 40 CFR 146.10 and other applicable Federal, State or local law or regulations. Tubing, packer and other downhole apparatus shall be removed. Cement with additives such as accelerators and retarders that control or enhance cement properties may be used for plugs; however, volume-extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.6 lb/gal shall be placed between all plugs. A minimum 50 ft surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. Prior to placement of the cement plug(s) the well shall be in a state of static equilibrium with the mud weight equalized top to bottom, either by circulating the mud in the well at least once or by a comparable method prescribed by the Director.

3. Approved Plugging and Abandonment Plan.

The approved plugging and abandonment plan is incorporated into this Permit as APPENDIX E. Changes to the approved plugging and abandonment plan must be approved by the Director prior to beginning plugging operations. The Director also may require revision of the approved plugging and abandonment plan at any time prior to plugging the well.

4. Forty Five (45) Day Notice of Plugging and Abandonment.

The Permittee shall notify the Director at least forty-five (45) days prior to plugging and abandoning a well and provide notice of any anticipated change to the approved plugging and abanonment plan.

5. Plugging and Abandonment Report.

Within sixty (60) days after plugging a well, the Permittee shall submit a report (EPA Form 7520-13) to the Director. The plugging report shall be certified as accurate by the person who performed the plugging operation. Such report shall consist of either:

(a) A statement that the well was plugged in accordance with the approved plugging and abandonment plan; or

(b) Where actual plugging differed from the approved plugging and abandonment plan, an updated version of the plan, on the form supplied by the Director, specifying the differences.

6. Inactive Wells.

After any period of two years during which there is no injection the Permittee shall plug and abandon the well in accordance with Part II Section E Paragraph 2 of this Permit unless the Permittee:

(a) Provides written notice to the Director;

(b) Describes the actions or procedures the Permittee will take to ensure that the well will not endanger USDWs during the period of inactivity. These actions and procedures shall include compliance with mechanical integrity demonstration, Financial Responsibility and all other permit requirements designed to protect USDWs; and

(c) Receives written notice by the Director temporarily waiving plugging and abandonment requirements.

PART III. CONDITIONS APPLICABLE TO ALL PERMITS

Section A. EFFECT OF PERMIT

The Permittee is allowed to engage in underground injection in accordance with the conditions of this Permit. The Permittee shall not construct, operate, maintain, convert, plug, abandon, or conduct any other activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation under 40 CFR 142 or may otherwise adversely affect the health of persons. Any underground injection activity not authorized by this Permit or by rule is prohibited. Issuance of this Permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of any other Federal, State or local law or regulations. Compliance with the terms of this Permit does not constitute a defense to any enforcement action brought under the provisions of Section 1431 of the Safe Drinking Water Act (SDWA) or any other law governing protection of public health or the environment, for any imminent and substantial endangerment to human health or the environment, nor does it serve as a shield to the Permittee's independent obligation to comply with all UIC regulations. Nothing in this Permit relieves the Permittee of any duties under applicable regulations.

Section B. CHANGES TO PERMIT CONDITIONS

1. Modification, Reissuance, or Termination.

The Director may, for cause or upon a request from the Permittee, modify, revoke and reissue, or terminate this Permit in accordance with 40 CFR 124.5, 144.12, 144.39, and 144.40. Also, this Permit is subject to minor modification for causes as specified in 40 CFR 144.41. The filing of a request for modification, revocation and reissuance, termination, or the notification of planned changes or anticipated noncompliance on the part of the Permittee does not stay the applicability or enforceability of any condition of this Permit.

2. Conversions.

The Director may, for cause or upon a written request from the Permittee, allow conversion of the well from a Class II injection well to a non-Class II well. Conversion may not proceed until the Permittee receives written approval from the Director. Conditions of such conversion may include but are not limited to, approval of the proposed well rework, follow up demonstration of mechanical integrity, well-specific monitoring and reporting following the conversion, and demonstration of practical use of the converted configuration.

3. Transfer of Permit.

Under 40 CFR 144.38, this Permit is transferable provided the current Permittee notifies the Director at least thirty (30) days in advance of the proposed transfer date (EPA Form 7520-7) and provides a written agreement between the existing and new Permittees containing a specific date for transfer of Permit responsibility, coverage and liability between them. The notice shall adequately demonstrate that the financial responsibility requirements of 40 CFR 144.52(a)(7) will be met by the new Permittee. The Director may require modification or revocation and reissuance of the Permit to change the name of the Permittee and incorporate such other requirements as may be necessary under the Safe Drinking Water Act; in some cases, modification or revocation and reissuance is mandatory.

4. Permittee Change of Address.

Upon the Permittee's change of address, or whenever the operator changes the address where monitoring records are kept, the Permittee must provide written notice to the Director within 30 days.

5. Construction Changes, Workovers, Logging and Testing Data

The Permittee shall give advance notice to the Director, and shall obtain the Director's written approval prior to any physical alterations or additions to the permitted facility. Alterations or workovers shall meet all conditions as set forth in this permit. The Permittee shall record any changes to the well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workovers, logging , or test data to EPA within sixty (60) days of completion of the activity.

Following the completion of any well workovers or alterations which affect the casing, tubing, or packer, a successful demonstration of mechanical integrity (Part III, Section F of this Permit) shall be made, and written authorization from the Director received, prior to resuming injection activities.

Section C. SEVERABILITY

The Provisions of this Permit are severable, and if any provision of this Permit or the application of any provision of this Permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Permit shall not be affected thereby.

Section D. CONFIDENTIALITY

In accordance with 40 CFR Part 2 and 40 CFR 144.5, information submitted to EPA pursuant to this Permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, EPA may make the information available to the public without further notice. If a claim is asserted, the validity of the claim will be assessed in accordance with the procedures in 40 CFR Part 2 (Public Information). Claims of confidentiality for the following information will be denied:

- The name and address of the Permittee, and
- information which deals with the existence, absence or level of contaminants in drinking water.

Section E. GENERAL PERMIT REQUIREMENTS

1. Duty to Comply.

The Permittee must comply with all conditions of this Permit. Any noncompliance constitutes a violation of the Safe Drinking Water Act (SDWA) and is grounds for enforcement action; for Permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application; except that the Permittee need not comply with the provisions of this Permit to the extent and for the duration such noncompliance is authorized in an emergency permit under 40 CFR 144.34. All violations of the SDWA may subject the Permittee to penalties and/or criminal prosecution as specified in Section 1423 of the SDWA.

2. Duty to Reapply.

If the Permittee wishes to continue an activity regulated by this Permit after the expiration date of this Permit, under 40 CFR 144.37 the Permittee must apply for a new permit prior to the expiration date.

3. Need to Halt or Reduce Activity Not a Defense.

It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Permit.

4. Duty to Mitigate.

The Permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this Permit.

5. Proper Operation and Maintenance.

The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of this Permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this Permit.

6. Permit Actions.

This Permit may be modified, revoked and reissued or teminated for cause. The filing of a request by the Permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

7. Property Rights.

This Permit does not convey any property rights of any sort, or any exclusive privilege.

8. Duty to Provide Information.

The Permittee shall furnish to the Director, within a time specified, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The Permittee shall also furnish to the Director, upon request, copies of records required to be kept by this Permit. The Permittee is required to submit any information required by this Permit or by the Director to the mailing address designated in writing by the Director.

9. Inspection and Entry.

The Permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

(a) Enter upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Permit;

(b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;

(c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and,

(d) Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the SDWA, any substances or parameters at any location.

10. Signatory Requirements.

All applications, reports or other information submitted to the Director shall be signed and certified according to 40 CFR 144.32. This section explains the requirements for persons duly authorized to sign documents, and provides wording for required certification.

11. Reporting Requirements.

(a) Planned changes. The Permittee shall give notice to the Director as soon as possible of any planned changes, physical alterations or additions to the permitted facility, and prior to commencing such changes.

(b) Anticipated noncompliance. The Permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

(c) Monitoring Reports. Monitoring results shall be reported at the intervals specified in this Permit.

(d) Compliance schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than 30 days following each schedule date.

(e) Twenty-four hour reporting. The Permittee shall report to the Director any noncompliance which may endanger human health or the environment, including:

(i) Any monitoring or other information which indicates that any contaminant may cause endangerment to a USDW; or

(ii) Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between USDWs.

Information shall be provided, either directly or by leaving a message, within twenty-four (24) hours from the time the permittee becomes aware of the circumstances by telephoning (800) 227-8917 and requesting EPA Region VIII UIC Program Compliance and Technical Enforcement Director, or by contacting the EPA Region VIII Emergency Operations Center at (303) 293-1788.

In addition, a follow up written report shall be provided to the Director within five (5) days of the time the Permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance including exact dates and times, and if the noncompliance has not been corrected the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

(f) Oil Spill and Chemical Release Reporting: The Permittee shall comply with all reporting requirements related to the occurence of oil spills and chemical releases by contacting the National Response Center (NRC) at (800) 424-8802, (202) 267-2675, or through the NRC website http://www.nrc.uscg.mil/index.htm.

(g) Other Noncompliance. The Permittee shall report all instances of noncompliance not reported under paragraphs Part III, Section E Paragraph 11(b) or Section E, Paragraph 11(e) at the time the monitoring reports are submitted. The reports shall contain the information listed in Paragraph 11(e) of this Section.

(h) Other information. Where the Permittee becomes aware that it failed to submit any relevant facts in the permit application, or submitted incorrect information in a permit application or in any report to the Director, the Permittee shall promptly submit such facts or information to the Director.

Section F. FINANCIAL RESPONSIBILITY

1. Method of Providing Financial Responsibility.

The Permittee shall maintain continuous compliance with the requirement to maintain financial responsibility and resources to close, plug, and abandon the underground injection well(s). No substitution of a demonstration of financial responsibility shall become effective until the Permittee receives written notification from the Director that the alternative demonstration of financial responsibility is acceptable. The Director may, on a periodic basis, require the holder of a permit to revise the estimate of the resources needed to plug and abandon the well to reflect changes in such costs and may require the Permittee to provide a revised demonstration of financial responsibility.

2. Insolvency.

In the event of:

(a) the bankruptcy of the trustee or issuing institution of the financial mechanism; or

(b) suspension or revocation of the authority of the trustee institution to act as trustee; or

(c) the institution issuing the financial mechanism losing its authority to issue such an instrument

the Permittee must notify the Director in writing, within ten (10) business days, and the Permittee must establish other financial assurance or liability coverage acceptable to the Director within sixty (60) days after any event specified in (a), (b), or (c) above.

The Permittee must also notify the Director by certified mail of the commencement of voluntary or involuntary proceedings under Title 11 (Bankruptcy), U.S. Code naming the owner or operator as debtor, within ten (10) business days after the commencement of the proceeding. A guarantor, if named as debtor of a corporate guarantee, must make such a notification as required under the terms of the guarantee.

APPENDIX A

WELL CONSTRUCTION REQUIREMENTS

See diagram.

The Federal 15-8-9-18 was drilled to a total depth of 5,924 feet (KB) feet in the Formation. No 80% bond index cement within Confining Zone "B" Shale.

Surface casing (8-5/8 inch) was set at a depth of 323 feet in a 12-1/4 inch hole using 220 sacks of Class "G" cement which was circulated to the surface.

Production casing (5-1/2 inch) was set at a depth of 5,924 feet (KB) in a 7-7/8 inch hole with 675 sacks of Class G cement.

The schematic diagram shows enhanced recovery injection perforations in the Douglas Creek Member of the Green River Formation. Additonal perforations may be added at a later date between the depths of 3,602 feet and the top of the Wasatch Formation (5,846 feet) provided the operator first notifies the Director and later submits an updated well completion report (EPA Form 7520-12) and schematic diagram.

The packer will be set no higher than 100 feet above the top perforation.

Total depth and plug back total depth are both identified as 5,924 feet. The submitted Bureau of Land Management (Well Completion Log) identifies total depth as 5,924 feet.

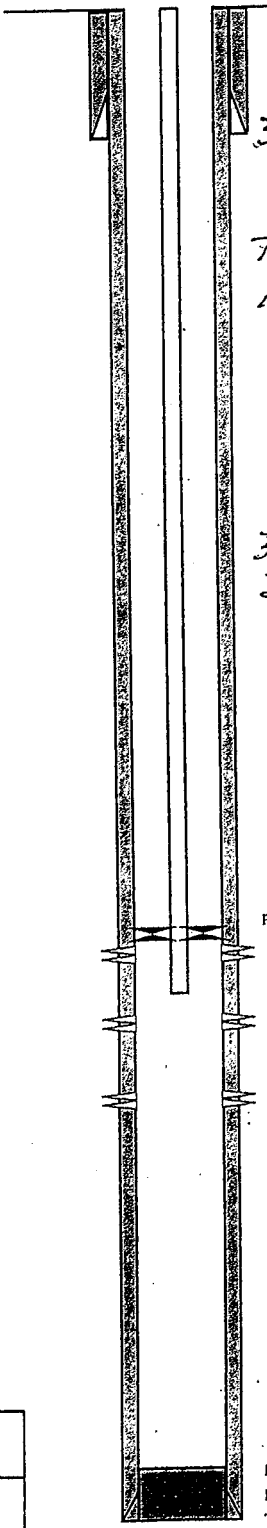
UT21149-07848

Federal 15-8-9-18

Spud Date: 10/24/84
Put on Production: 12/9/84
GL: 5046' KB: 5056'

Initial Production: 168 BOPD,
12 MCFD, 252 BWPD

Proposed Injection
Wellbore Diagram



SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
DEPTH LANDED: 323' KB
HOLE SIZE: 12-1/4"
CEMENT DATA: 220 sxs Class "G" cmt.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
DEPTH LANDED: 5922' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 675 sxs Class "G" cmt.
CEMENT TOP AT: ? per CBL 662'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS:
TUBING ANCHOR:
NO. OF JOINTS:
SEATING NIPPLE: 2-7/8" (1.10')
SN LANDED AT:
TOTAL STRING LENGTH: EOT @ 5506' KB

FRAC JOB

5346'-5428'

Frac sands as follows:

112,000# 20/40 sand in 1690 bbls GWX-7 frac fluid.

PERFORATION RECORD

5422'-5428'	4 JSPF	24 holes
5416'-5488'	4 JSPF	08 holes
5346'-5354'	4 JSPF	32 holes

5724' Basal Carbonate
5846' Wasatch

NEWFIELD

Federal 15-8-9-18

660' FSL & 1977' FEL
SW/SE Section 8-T9S-R18E
Uintah Co, Utah
API #43-047-31547; Lease #UTU-16540

MC 5/7/07

APPENDIX B

LOGGING AND TESTING REQUIREMENTS

Logs.
Logs will be conducted according to current UIC guidance. It is the responsibility of the Permittee to obtain and use guidance prior to conducting any well logging required as a condition of this permit.

NO LOGGING REQUIREMENTS

Tests.
Tests will be conducted according to current UIC guidance. It is the responsibility of the Permittee to obtain and use guidance prior to conducting any well test required as a condition of this permit.

WELL NAME: Federal 15-8-9-18

TYPE OF TEST	DATE DUE
Radioactive Tracer Survey (2)	Within 180 days following commencement of injection. Barring any extraordinary circumstances this shall be a one-time event.
Standard Annulus Pressure	Prior to receiving authorization to inject and at least once within any five (5) year period following the last successful test.
Pore Pressure	Prior to receiving authorization to inject.

APPENDIX C

OPERATING REQUIREMENTS

MAXIMUM ALLOWABLE INJECTION PRESSURE:

Maximum Allowable Injection Pressure (MAIP) as measured at the surface shall not exceed the pressure(s) listed below.

	MAXIMUM ALLOWED INJECTION PRESSURE (psi)
WELL NAME	ZONE 1 (Upper)
Federal 15-8-9-18	1,300

INJECTION INTERVAL(S):

Injection is permitted only within the approved injection interval listed below. Injection perforations may be altered provided they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6. Specific injection perforations can be found in Appendix A.

WELL NAME: Federal 15-8-9-18

	APPROVED INJECTION INTERVAL (KB, ft)		FRACTURE GRADIENT
FORMATION NAME	TOP	BOTTOM	(psi/ft)
Green River	3,888.00	5,846.00	0.690

ANNULUS PRESSURE:

The annulus pressure shall be maintained at zero (0) psi as measured at the wellhead. If this pressure cannot be maintained, the Permittee shall follow the procedures listed under Part II, Section C. 6. of this permit.

MAXIMUM INJECTION VOLUME:

There is no limitation on the number of barrels per day (bbls/day) of water that shall be injected into this well, provided further that in no case shall injection pressure exceed that limit shown in Appendix C.

APPENDIX D

MONITORING AND REPORTING PARAMETERS

This is a listing of the parameters required to be observed, recorded, and reported. Refer to the permit Part II, Section D, for detailed requirements for observing, recording, and reporting these parameters.

OBSERVE MONTHLY AND RECORD AT LEAST ONCE EVERY THIRTY DAYS	
OBSERVE AND RECORD	Injection pressure (psig)
	Annulus pressure(s) (psig)
	Injection rate (bbl/day)
	Fluid volume injected since the well began injecting (bbls)

ANNUALLY	
ANALYZE	Injected fluid total dissolved solids (mg/l)
	Injected fluid specific gravity
	Injected fluid specific conductivity
	Injected fluid pH

ANNUALLY	
REPORT	Each month's maximum and averaged injection pressures (psig)
	Each month's maximum and minimum annulus pressure(s) (psig)
	Each month's injected volume (bbl)
	Fluid volume injected since the well began injecting (bbl)
	Written results of annual injected fluid analysis
	Sources of all fluids injected during the year

In addition to these items, additional Logging and Testing results may be required periodically. For a list of those items and their due dates, please refer to APPENDIX B - LOGGING AND TESTING REQUIREMENTS.

APPENDIX E

PLUGGING AND ABANDONMENT REQUIREMENTS

See diagram.

The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluid into or between USDWs and in accordance with other applicable Federal, State or local law or regulation. Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs. However, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. Within sixty (60) days after plugging, the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

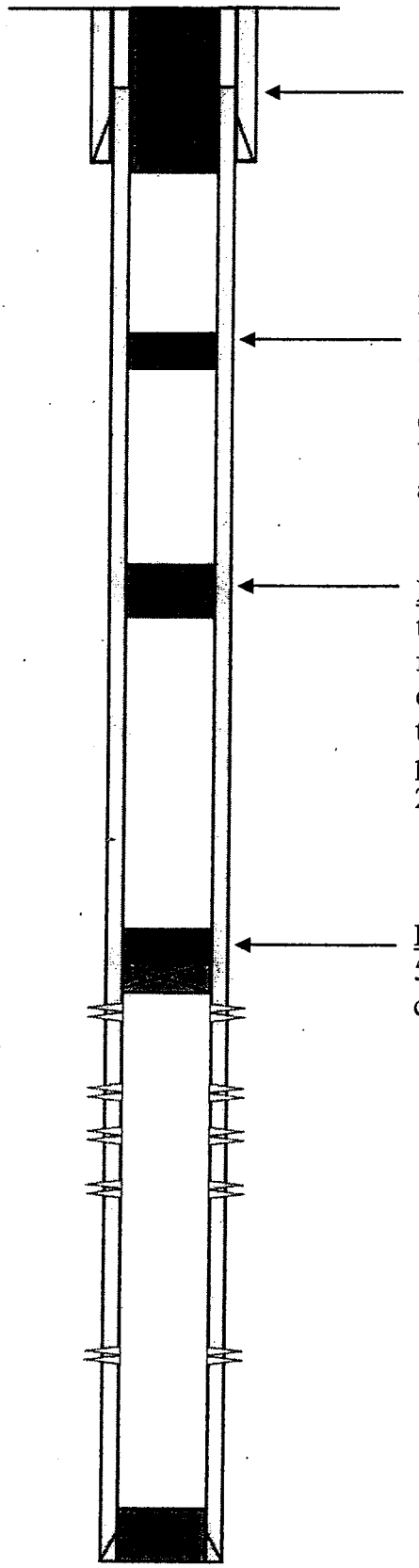
PLUG NO. 1: Seal Injection Zone: Set a cast iron bridge plug (CIBP) no more than fifty (50) feet above the top injection perforation. Place at least twenty (20) feet of cement plug on top of the CIBP.

PLUG NO. 2: Seal Mahogany Shale and Trona intervals: Squeeze a cement plug on the backside of the 5-1/2 inch casing across the Trona Zone and the Mahogany Shale approximately 2,730 feet to 2,890 feet (unless pre-existing backside cement precludes cement-squeezing this interval) followed by a minimum 160-foot balanced cement plug inside the 5-1/2 inch casing across the Trona Zone and the Mahogany Shale, approximately 2,730 feet to 2,890 feet.

PLUG NO. 3: Seal USDWs: Squeeze a cement plug (1,250 feet - 1,350 feet) on the backside of the 5-1/2 inch casing across the base of the Uinta formation (unless pre-existing backside cement precludes cement-squeezing this interval), followed by a minimum 100-foot balanced cement plug inside the 5-1/2 inch casing across the base of the Uinta Formation, approximately 1,250 feet to 1,350 feet.

PLUG NO.4: Seal Surface: Set a Class "G" cement plug within the 5-1/2 inch casing to 495 feet and up the 5-1/2 inch by 8-5/8 inch casings annulus to the surface.

Plugging and Abandonment Diagram
Federal 15-8-9-18



Plug 4: Set a Class "G" cement plug within the 5-1/2 inch casing surface to 495 feet and up the 5-1/2 inch X 8-5/8 inch casing annulus to the surface.

Plug 3: Perforate and squeeze cement up the backside of the casing across the contact between the Uinta Formation and Green River Formation, 1,250 feet - 1,350 feet, unless existing backside cement precludes cement-squeezing this interval. Set a minimum 100-foot balanced cement plug inside the casing from approximately 1,250 feet – 1,350 feet.

Plug 2: Perforate and squeeze cement up the backside of the casing across the Trona Zone and Mahogany Bench from approximately 2,730 feet – 2,890 feet unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 160-foot balanced cement plug inside of the casing approximately 2,730 feet – 2,890 feet.

Plug 1: Set a cast iron bridge plug (CIBP) no more than 50 ft above the top perforation with a minimum of 20 ft cement plug on top of the CIBP.

APPENDIX F

CORRECTIVE ACTION REQUIREMENTS

No Corrective Action required for AOR wells.

STATEMENT OF BASIS

NEWFIELD PRODUCTION CO.
FEDERAL 15-8-9-18
UINTAH COUNTY, UT

EPA PERMIT NO. UT21149-07848

CONTACT: Emmett Schmitz
U. S. Environmental Protection Agency
Ground Water Program, 8P-W-GW
1595 Wynkoop Street
Denver, Colorado 80202-1129
Telephone: 1-800-227-8917 ext. 312-6174

This STATEMENT OF BASIS gives the derivation of site-specific UIC Permit conditions and reasons for them. Referenced sections and conditions correspond to sections and conditions in the Permit.

EPA UIC permits regulate the injection of fluids into underground injection wells so that the injection does not endanger underground sources of drinking water. EPA UIC permit conditions are based upon the authorities set forth in regulatory provisions at 40 CFR Parts 144 and 146, and address potential impacts to underground sources of drinking water. Under 40 CFR 144.35 Issuance of this permit does not convey any property rights of any sort or any exclusive privilege, nor authorize injury to persons or property of invasion of other private rights, or any infringement of other Federal, State or local laws or regulations. Under 40 CFR 144 Subpart D, certain conditions apply to all UIC Permits and may be incorporated either expressly or by reference. General Permit conditions for which the content is mandatory and not subject to site-specific differences (40 CFR Parts 144, 146 and 147) are not discussed in this document.

Upon the Effective Date when issued, the Permit authorizes the construction and operation of injection wells so that the injection does not endanger underground sources of drinking water, governed by the conditions specified in the Permit. The Permit is issued for the operating life of the injection well or project unless terminated for reasonable cause under 40 CFR 144.39, 144.40 and 144.41. The Permit is subject to EPA review at least once every five (5) years to determine if action is required under 40 CFR 144.36(a).

PART I. General Information and Description of Facility

Newfield Production Co.
1001 Seventeenth Street, Suite 2000
Denver, CO 80202

on

April 12, 2010

submitted an application for an Underground Injection Control (UIC) Program Permit or Permit Modification for the following injection well or wells:

Federal 15-8-9-18
660'FSL & 1977'FEL., SWSE S8, T9S, R18E
Uintah County, UT

Regulations specific to Uintah-Ouray Indian Reservation injection wells are found at 40 CFR 147 Subpart TT.

The application, including the required information and data necessary to issue or modify a UIC Permit in accordance with 40 CFR Parts 144, 146 and 147, was reviewed and determined by EPA to be complete.

The Permit will expire upon delegation of primary enforcement responsibility (primacy) for applicable portions of the UIC Program to the Ute Indian Tribe or the State of Utah unless the delegated agency has the authority and chooses to adopt and enforce this Permit as a Tribal or State Permit.

TABLE 1.1 shows the status of the well or wells as "New", "Existing", or "Conversion" and for Existing shows the original date of injection operation. Well authorization "by rule" under 40 CFR Part 144 Subpart C expires automatically on the Effective Date of an issued UIC Permit.

The Federal 15-8-9-18 is currently an active Green River Formation, Douglas Creek Member, oil well. It is the initial intent of the applicant to use the current Douglas Creek perforations for Class II enhanced recovery injection. The Federal 15-8-9-18 has total depth in the Wasatch Formation. The Federal 15-8-9-18 was placed on production December 9. 1984.

TABLE 1.1

WELL STATUS / DATE OF OPERATION

NEW WELLS

Well Name	Well Status	Date of Operation
Federal 15-8-9-18	New	N/A

PART II. Permit Considerations (40 CFR 146.24)

Hydrogeologic Setting

Water wells for domestic supply in this area, when present, generally are completed into the shallow alluvium, the Duchesne River Formation, or the underlying Uinta Formation, and the water generally contains approximately 500 to 1,500 mg/l and higher total dissolved solids.

The Uinta-Animas aquifer in the Uinta Basin is present in water-yielding beds of sandstone, conglomerate, and siltstone of the Duchesne River and Uinta Formations, the Renegade Tongue of the Wasatch Formation, and the Douglas Creek Member of the Green River Formation. The Renegade Tongue of the Wasatch Formation and the Douglas Creek Member of the Green River Formation contain an aquifer along the southern and eastern margins of the basin where the rocks primarily consist of fluvial, massive, irregularly bedded sandstone and siltstone. Water-yielding units in the Uinta-Animas aquifer in the Uinta Basin commonly are separated from each other and from the underlying Mesaverde aquifer by units of low permeability composed of claystone, shale, marlstone, or limestone. In the Uinta Basin, for example, the part of the aquifer in the Duchesne River and Uinta Formations ranges in thickness from 0 feet at the southern margin of the aquifer to as much as 9,000 feet in the north-central part of the aquifer. Ground-water recharge to the Uinta-Animas aquifer generally occurs in the areas of higher altitude along the margins of the basin. Ground water is discharged mainly to streams, springs, and by transpiration from vegetation growing along stream valleys. The rate of ground-water withdrawal is small, and natural discharge is approximately equal to recharge. Recharge occurs near the southern margin of the aquifer, and discharge occurs near the White and Green Rivers (from USGS publication HA 730-C). Water samples from Mesaverde sands in the nearby Natural Buttes Unit yielded highly saline water.

Geologic Setting (TABLE 2.1)

The proposed enhanced oil recovery injection well is located in the Greater Monument Butte Field, T7-9S and R15-19E, which lies near the center of the broad, gently northward dipping south flank of the Uinta Basin. More than 450 million barrels of oil (63 MT) have been produced from sediments of the Uinta Basin. The Uinta Basin is a topographic and structural trough encompassing an area of more than 9,300 square mi (14,900 km) in northeast Utah. The basin is sharply asymmetrical, with a steep north flank bounded by the east-west-trending Uinta Mountains, and a gently dipping south flank. The Uinta Basin was formed in Paleocene to Eocene time, creating a large area of internal drainage which was filled by the ancestral Lake Uinta. The lacustrine, or fresh water lake-formed, sediments deposited in and around Lake Uinta make up the Uintah and Green River Formations. The southern shore of Lake Uinta was very broad and flat, resulting in large cyclic shifts of the location of the shoreline during the many repeated transgressive and regressive cycles caused by the climatic and tectonic-induced rise and fall of water levels of the lake. Distributary-mouth bars, distributary channels, and near-shore bars are the primary oil producing sandstone reservoirs in the area. (Ref: "Reservoir Characterization of the Lower Green River Formation, Southwest Uinta Basin, Utah Biannual Technical Progress Report, 4/1/99-9/30/99", by C. D. Morgan, Program Manager, November 1999, Contract DE-AC26-98BC15103).

The Duchesne River Formation is absent in this area. Shale and siltstone of the Uintah Formation outcrop and compose the surface rock throughout the area. The lower 600 feet to 800 feet of the Uinta Formation, consisting generally of shale interbedded with occasionally water-bearing sandstone lenses between 5 feet to 20 feet thick, is underlain by the Green River Formation. The

Green River Formation is further subdivided into several Member and local marker units. The cyclic nature of Green River deposition in the southern shore area resulted in numerous stacked, intertonguing deltaic and near-shore sand and silt deposits. Red alluvial shale and siltstone deposits that intertongue with the Green River sediments are of the Colton and Wasatch Formations. Under the Wasatch Formation is the Mesaverde Formation, which consists primarily of continental-origin deposits of interbedded shale, sandstone, and coal.

The geologic dip is about 200 feet per mile, and there are no known surface faults in this area. Veins of gilsonite, a natural resinous hydrocarbon occasionally mined as a resource, occurs in the greater Uintah Basin though it is predominantly found on the eastern margin of the basin near the Colorado border. Vertical veins, generally between 2 feet to 6 feet wide but up to 28 feet wide, may extend many miles in length and occasionally extend as deep as 2,000 feet. In this area within the Greater Monument Butte Field there is one known gilsonite vein. This vein is not considered to present a pathway for migration of fluid out of the injection zone because it terminates at depth of about 2,000 feet far above the protective confining layer and much deeper injection zone.

TABLE 2.1
GEOLOGIC SETTING
Federal 15-8-9-18

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Lithology
Uinta	0	446	< 10,000	Sand and shale.
Uinta	446	1,305		Interbedded lacustrine sand, shale and carbonate with fluvial sand and shale.
Green River	1,305	5,846		Interbedded lacustrine sand, shale and carbonate with fluvial sand and shale.
Green River: Trona	2,780	2,819		Evaporite.
Green River: Mahogany Bench	2,819	2,839		Shale
Green River: Garden Gulch	3,602	4,532		Interbeded lacustrine sand, shale and carbonate with fluvial sand and shale.
Green River: Confining Zone "B"	3,803	3,888		Shale.
Green River: Douglas Creek	4,532	5,724	45,185	Interbedded lacustrine sand, shale and carbonate with fluvial sand and shale.
Green River: Basal Carbonate	5,724	5,846		Carbonate.
Wasatch	5,846	5,924		Shale

Proposed Injection Zone(s) (TABLE 2.2)

An injection zone is a geological formation, group of formations, or part of a formation that receives fluids through a well. The proposed injection zones are listed in TABLE 2.2.

Injection will occur into an injection zone that is separated from USDWs by a confining zone which is free of known open faults or fractures within the Area of Review.

Environmental Protection Agency (EPA) approved interval for Class II enhanced recovery injection in the Federal 15-8-9-18 is located between the top of Garden Gulch No. 2 Member (3,888 feet) and the top of the Wasatch Formation 5,846 feet.

TABLE 2.2
INJECTION ZONES
Federal 15-8-9-18

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Fracture Gradient (psi/ft)	Porosity	Exempted?*
Green River	3,888	5,846	45,185	0.690		N/A

* **C - Currently Exempted**
E - Previously Exempted
P - Proposed Exemption
N/A - Not Applicable

Confining Zone(s) (TABLE 2.3)

A confining zone is a geological formation, part of a formation, or a group of formations that limits fluid movement above the injection zone. The confining zone or zones are listed in TABLE 2.3.

The 85-foot "B" Shale Confining Zone (3,803 feet - 3,888 feet) is also the top of Garden Gulch No. 2 Member. Analysis of a March 3, 2009 Cement Bond Log describes no 80% cement bond within Shale "B" .

TABLE 2.3
CONFINING ZONES
Federal 15-8-9-18

Formation Name	Formation Lithology	Top (ft)	Base (ft)
Green River: Garden Gulch "B" Shale.	Shale	3,803	3,888

Underground Sources of Drinking Water (USDWs) (TABLE 2.4)

Aquifers or the portions thereof which contain less than 10,000 mg/l total dissolved solids (TDS) and are being or could in the future be used as a source of drinking water are considered to be USDWs. The USDWs in the area of this facility are identified in TABLE 2.4.

Throughout the Greater Monument Butte Field area undergoing enhanced oil recovery operations, water analyses of the Green River Formation generally exhibit total dissolved solids (TDS) content well in excess of 10,000 mg/l. However, some recent water analyses from the field showed lower TDS values closer to 10,000 mg/l. While rain and surface water recharge into Green River Formation outcrops further south along the Book Cliffs/Roan Cliffs in effect "freshens" the Green River Formation water near those outcrops, in this area of the Monument Butte Field the observed occasional 'freshening' is ascribed to the effective dilution of the originally in-place high TDS water from injection of relatively fresh water for enhanced oil recovery operations. Water samples from deeper Mesaverde Formation sands in the nearby Natural Buttes Unit yield highly saline water.

The State of Utah "Water Wells and Springs" identifies no public water supply wells within the one-quarter (1/4) mile Area-of-Review (AOR) around the Federal 15-8-9-18.

Technical Publication No. 92: State of Utah, Department of Natural Resources, cites the base of Underground Sources of Drinking Water (USDW) in the Uinta Formation approximately 446 feet from the surface. Absent definitive information relative to the water quality of the Uinta Formation, 446 feet to the base of the Uinta Formation (1,305 feet), the EPA will require during plugging and abandonment a cement plug at the base of the Uinta Formation to protect contamination of possible Uinta USDWs.

TABLE 2.4
UNDERGROUND SOURCES OF DRINKING WATER (USDW)
Federal 15-8-9-18

Formation Name	Formation Lithology	Top (ft)	Base (ft)	TDS (mg/l)
Uinta	Sand and shale.	0	446	< 10,000
Uinta	Interbedded lacustrine sand, shale and carbonate with fluvial sand and shale.	446	1,305	

PART III. Well Construction (40 CFR 146.22)

See diagram.

Federal 15-8-9-18 was drilled to a total depth of 5,924 feet (KB) feet in the Wasatch Formation. No 80% bond index cement is present within the "B" Shale Confining Zone.

Surface casing (8-5/8 inch) was set at a depth of 323 feet in a 12-1/4 inch hole using 220 sacks of Class "G" cement which was circulated to the surface.

Production casing (5-1/2 inch) was set at a depth of 5,924 feet (KB) in a 7-7/8 inch hole with 675 sacks of Class G cement.

The Cement Bond Log (CBL) identifies top of cement as 662 feet.

The schematic diagram shows enhanced recovery injection perforations in the Douglas Creek Member of the Green River Formation. Additional perforations may be added at a later time between the depths of 3,888 feet and the top of the Wasatch Formation (5,846 feet) provided the operator first notifies the Director and later submits an updated well completion report (EPA Form 7520-12) and schematic diagram.

The packer will be set no higher than 100 feet above the top perforation.

Total depth and plugged back total depth are both identified as 5,924 feet. The submitted Bureau of Land Management (Well Completion Log) identifies total depth as 5,924 feet.

TABLE 3.1
WELL CONSTRUCTION REQUIREMENTS
Federal 15-8-9-18

Casing Type	Hole Size (in)	Casing Size (in)	Cased Interval (ft)	Cemented Interval (ft)
Production	7.88	5.50	0 - 5,922	662 - 5,924
Surface	12.25	8.63	0 - 323	0 - 323

The approved well completion plan will be incorporated into the Permit as APPENDIX A and will be binding on the Permittee. Modification of the approved plan is allowed under 40 CFR 144.52(a)(1) provided written approval is obtained from the Director prior to actual modification.

Casing and Cementing (TABLE 3.1)

The well construction plan was evaluated and determined to be in conformance with standard practices and guidelines that ensure well injection does not result in the movement of fluids into USDWs. Well construction details for this "new" injection well is shown in TABLE 3.1.

Remedial cementing may be required if the casing cement is shown to be inadequate by cement bond log or other demonstration of Part II (External) mechanical integrity.

Tubing and Packer

Injection tubing is required to be installed from a packer up to the surface inside the well casing. The packer will be set above the uppermost perforation. The tubing and packer are designed to prevent injection fluid from coming into contact with the outermost casing.

Tubing-Casing Annulus (TCA)

The TCA allows the casing, tubing and packer to be pressure-tested periodically for mechanical integrity, and will allow for detection of leaks. The TCA will be filled with fresh water treated with a corrosion inhibitor or other fluid approved by the Director.

The tubing/casing annulus must be kept open at all times so that it can be monitored as required under conditions of the Permit.

Monitoring Devices

The permittee will be required to install and maintain wellhead equipment that allows for monitoring pressures and providing access for sampling the injected fluid. Required equipment may include but is not limited to: 1) shut-off valves located at the wellhead on the injection tubing and on the TCA; 2) a flow meter that measures the cumulative volume of injected fluid; 3) fittings or pressure gauges attached to the injection tubing and the TCA for monitoring the injection and TCA pressure; and 4) a tap on the injection line, isolated by shut-off valves, for sampling the injected fluid.

All sampling and measurement taken for monitoring must be representative of the monitored activity.

PART IV. Area of Review, Corrective Action Plan (40 CFR 144.55)

TABLE 4.1
AOR AND CORRECTIVE ACTION

Well Name	Type	Status (Abandoned Y/N)	Total Depth (ft)	TOC Depth (ft)	CAP Required (Y/N)
Federal 10-8-9-18	Producer	No	5,925	950	No
Federal 14-8-9-18	Producer	No	5,855	60	No
Federal 16-8-9-18	Producer	No	5,870	340	No

TABLE 4.1 lists the wells in the Area of Review ("AOR") and shows the well type, operating status, depth, top of casing cement ("TOC") and whether a Corrective Action Plan ("CAP") is required for the well.

Area Of Review

Applicants for Class I, II (other than "existing" wells) or III injection well Permits are required to identify the location of all known wells within the injection well's Area of Review (AOR) which penetrate the injection zone, or in the case of Class II wells operating over the fracture pressure of the formation, all known wells within the area of review that penetrate formations which may be affected by increased pressure. Under 40 CFR 146.6 the AOR may be a fixed radius of not less than one quarter (1/4) mile or a calculated zone of endangering influence. For Area Permits, a fixed width of not less than one quarter (1/4) mile for the circumscribing area may be used.

Corrective Action Plan

For wells in the AOR which are improperly sealed, completed, or abandoned, the applicant shall develop a Corrective Action Plan (CAP) consisting of the steps or modifications that are necessary to prevent movement of fluid into USDWs.

The CAP will be incorporated into the Permit as APPENDIX F and become binding on the permittee.

PART V. Well Operation Requirements (40 CFR 146.23)

TABLE 5.1
INJECTION ZONE PRESSURES
Federal 15-8-9-18

Formation Name	Depth Used to Calculate MAIP (ft)	Fracture Gradient (psi/ft)	Initial MAIP (psi)
Green River	5,346	0.690	1,300

Approved Injection Fluid

The approved injection fluid is limited to Class II injection well fluids pursuant to 40 CFR § 144.6(b). For disposal wells injecting water brought to the surface in connection with natural gas storage operations, or conventional oil or natural gas production, the fluid may be commingled and the well used to inject other Class II wastes such as drilling fluids and spent well completion, treatment and stimulation fluid. Injection of non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes, and vacuum truck and drum rinsate from trucks and drums transporting or containing non-exempt waste, is prohibited.

The proposed injectate shall be a blend of culinary quality water from the Johnson Water District pipeline and/or water from the Green River pipeline, and produced water from Green River Formation oil wells proximate to the Federal 15-8-9-18.

Injection Pressure Limitation

Injection pressure, measured at the wellhead, shall not exceed a maximum calculated to assure that the pressure used during injection does not initiate new fractures or propagate existing fractures in the confining zones adjacent to the USDWs.

Please note that EPA made minor corrections to Appendix B of the Draft Permit to remove unnecessary testing requirements related to the MAIP.

The applicant submitted injection fluid density and injection zone data which was used to calculate a formation fracture pressure and to determine the maximum allowable injection pressure (MAIP), as measured at the surface, for this Permit.

TABLE 5.1 lists the fracture gradient for the injection zone and the approved MAIP, determined according to the following formula:

$$FP = [fg - (0.433 * sg)] * d$$

FP = formation fracture pressure (measured at surface)
fg = fracture gradient (from submitted data or tests)
sg = specific gravity (of injected fluid)
d = depth to top of injection zone (or top perforation)

Injection Volume Limitation

Cumulative injected fluid volume limits are set to assure that injected fluids remain within the boundary of the exempted area. Cumulative injected fluid volume is limited when injection occurs into an aquifer that has been exempted from protection as a USDW.

There will be no restrictions on the cumulative volume or daily volume of authorized Class II fluid to be injected into the approved Green River Formation interval. The permittee will not exceed the maximum authorized surface injection pressure.

Mechanical Integrity (40 CFR 146.8)

An injection well has mechanical integrity if:

1. there is no significant leak in the casing, tubing, or packer (Part I); and
2. there is no significant fluid movement into a USDW through vertical channels adjacent to the injection well bore (Part II).

The Permit prohibits injection into a well which lacks mechanical integrity.

The Permit requires that the well demonstrate mechanical integrity prior to injection and periodically thereafter. A demonstration of mechanical integrity includes both internal (Part I) and external (Part II). The methods and frequency for demonstrating Part I and Part II mechanical integrity are dependent upon well-specific conditions as explained below.

Well construction and site-specific conditions dictate the following requirements for Mechanical Integrity (MI) demonstrations:

PART I MI: Internal MI will be demonstrated prior to beginning injection. Since this well is constructed with a standard casing, tubing, and packer configuration, a successful mechanical integrity test (MIT) is required to take place at least once every five (5) years. A demonstration of Part I MI is also required prior to resuming injection following any workover operation that affects the casing, tubing or packer. Part I MI may be demonstrated by a standard tubing-casing annulus pressure test using the maximum permitted injection pressure or 1,000 psi, which ever is less, with a ten (10) percent or less pressure loss over thirty (30) minutes.

PART II MI: The RTS will supplement the cementing records, which show an insufficient interval of 80 percent cement bond index or greater through the "B" Shale confining zone, by demonstrating the presence or absence of adequate cement to prevent fluid movement behind the casing above the uppermost perforation. It is intended that a maximum of 180 days of injection will allow the injection zone to achieve the Maximum Allowable Injection Pressure (MAIP) for the purpose of executing the RTS. If 180 days is not sufficient to achieve the MAIP specified in the Permit, an extension of the period of Limited Authorization to Inject may be requested. A submitted RTS which indicates the movement of fluid behind casing from the injection zone will result in a requirement to demonstrate Part II Mechanical Integrity using an approved Part II demonstration method such as a temperature log, oxygen activation log, or noise log at a frequency no less than once every five years.

PART VI. Monitoring, Recordkeeping and Reporting Requirements

Injection Well Monitoring Program

At least once a year the permittee must analyze a sample of the injected fluid for total dissolved solids (TDS), specific conductivity, pH, and specific gravity. This analysis shall be reported to EPA annually as part of the Annual Report to the Director. Any time a new source of injected fluid is added, a fluid analysis shall be made of the new source.

Instantaneous injection pressure, injection flow rate, cumulative fluid volume and TCA pressures must be observed on a weekly basis. A recording, at least once every thirty (30) days, must be made of the injection pressure, annulus pressure, monthly injection flow rate and cumulative fluid volume. This information is required to be reported annually as part of the Annual Report to the Director.

PART VII. Plugging and Abandonment Requirements (40 CFR 146.10)

Plugging and Abandonment Plan

Prior to abandonment, the well shall be plugged in a manner that isolates the injection zone and prevents movement of fluid into or between USDWs, and in accordance with any applicable Federal, State or local law or regulation. Tubing, packer and other downhole apparatus shall be

removed. Cement with additives such as accelerators and retarders that control or enhance cement properties may be used for plugs; however, volume-extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.6 lb/gal shall be placed between all plugs. A minimum 50 ft surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging the owner or operator shall submit Plugging Record (EPA Form 7520 13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. The plugging and abandonment plan is described in Appendix E of the Permit.

The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluid into or between USDWs and in accordance with other applicable Federal, State or local law or regulation. Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs. However, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. Within sixty (60) days after plugging, the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

PLUG NO. 1: Seal Injection Zone: Set a cast iron bridge plug (CIBP) no more than fifty (50) feet above the top injection perforation. Place at least twenty (20) feet of cement plug on top of the CIBP.

PLUG NO. 2: Seal Mahogany Shale and Trona intervals: Squeeze a cement plug on the backside of the 5-1/2 inch casing across the Trona Zone and the Mahogany Shale approximately 2,730 feet to 2,890 feet (unless pre-existing backside cement precludes cement-squeezing this interval) followed by a minimum 160-foot balanced cement plug inside the 5-1/2 inch casing across the Trona Zone and the Mahogany Shale, approximately 2,730 feet to 2,890 feet.

PLUG NO. 3: Seal USDWs: Squeeze a cement plug (1,250 feet - 1,350 feet) on the backside of the 5-1/2 inch casing across the base of the Uinta formation (unless pre-existing backside cement precludes cement-squeezing this interval), followed by a minimum 100-foot balanced cement plug inside the 5-1/2 inch casing across the base of the Uinta Formation, approximately 1,250 feet to 1,350 feet.

PLUG NO.4: Seal Surface: Set a Class "G" cement plug within the 5-1/2 inch casing to 495 feet and up the 5-1/2 inch by 8-5/8 inch casings annulus to the surface.

PART VIII. Financial Responsibility (40 CFR 144.52)

Demonstration of Financial Responsibility

The permittee is required to maintain financial responsibility and resources to close, plug, and abandon the underground injection operation in a manner prescribed by the Director. The permittee shall show evidence of such financial responsibility to the Director by the submission of a surety bond, or other adequate assurance such as financial statements or other materials acceptable to the Director. The Regional Administrator may, on a periodic basis, require the holder of a lifetime permit to submit a revised estimate of the resources needed to plug and abandon the well to reflect inflation of such costs, and a revised demonstration of financial responsibility if necessary. Initially, the operator has chosen to demonstrate financial responsibility

with:

A demonstration of Financial Responsibility in the amount of $59,344 has been reviewed and approved by the EPA. The Director may revise the amount required, and may require the Permittee to obtain and provide updated estimates of plugging and abandonment costs according to the approved Plugging and Abandonment Plan.

Financial Statement, received May 16, 2008

Evidence of continuing financial responsibility is required to be submitted to the Director annually.

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

5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-16540

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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.

7. UNIT or CA AGREEMENT NAME: GMBU

1. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER

8. WELL NAME and NUMBER: FEDERAL 15-8-9-18

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 4304731547

3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052

PHONE NUMBER: 435.646.3721

10. FIELD AND POOL, OR WILDCAT: GREATER MB UNIT

4. LOCATION OF WELL:

FOOTAGES AT SURFACE: 660 FSL 1977 FEL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE, 8, T9S, R18E

STATE: UT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
[ ] NOTICE OF INTENT (Submit in Duplicate)	[ ] ACIDIZE	[ ] DEEPEN	[ ] REPERFORATE CURRENT FORMATION
Approximate date work will	[ ] ALTER CASING	[ ] FRACTURE TREAT	[ ] SIDETRACK TO REPAIR WELL
	[ ] CASING REPAIR	[ ] NEW CONSTRUCTION	[ ] TEMPORARILY ABANDON
	[ ] CHANGE TO PREVIOUS PLANS	[ ] OPERATOR CHANGE	[ ] TUBING REPAIR
	[ ] CHANGE TUBING	[ ] PLUG AND ABANDON	[ ] VENT OR FLAIR
[X] SUBSEQUENT REPORT (Submit Original Form Only)	[ ] CHANGE WELL NAME	[ ] PLUG BACK	[ ] WATER DISPOSAL
Date of Work Completion:	[X] CHANGE WELL STATUS	[ ] PRODUCTION (START/STOP)	[ ] WATER SHUT-OFF
09/17/2010	[ ] COMMINGLE PRODUCING FORMATIONS	[ ] RECLAMATION OF WELL SITE	[ ] OTHER: -
	[X] CONVERT WELL TYPE	[ ] RECOMPLETE - DIFFERENT FORMATION	

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

The subject well has been converted from a producing oil well to an injection well on 09/15/2010. Angard treatment as follows: mix 15 gals Multi-Chem C-6031 & 5 gals B-8850 in 40 bbls fresh water. Pump dn annulus followed W/ 32 bbls of Angard. PU & set packer W/ SN @ 4546', CE @ 4550' & EOT @ 4555'. Land tbg W/ 15,000# tension. NU wellhead. Halliburton topped off annulus W/ 1/2 BW. Pressure up on Angard to 1490 psi. Bled down to 1450 psi after 15 minutes, then hold solid.

On 09/10/2010 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 09/17/2010 the casing was pressured up to 1600 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not an EPA representative available to witness the test.

EPA# UT21149-07848 API# 43-047-31547

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

NAME (PLEASE PRINT) Lucy Chavez-Naupoto TITLE Administrative Assistant

SIGNATURE [signature] DATE 09/23/2010

(This space for State use only)

RECEIVED
SEP 30 2010
DIV. OF OIL, GAS & MINING

FORM 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31,2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on page 2

5. Lease Serial No.
USA UTU-16540

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or
GMBU

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
FEDERAL 15-8-9-18

2. Name of Operator
NEWFIELD PRODUCTION COMPANY

9. API Well No.
4304731547

3a. Address Route 3 Box 3630
Myton, UT 84052

3b. Phone *(include are code)*
435.646.3721

10. Field and Pool, or Exploratory Area
GREATER MB UNIT

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
660 FSL 1977 FEL

SWSE Section 8 T9S R18E

11. County or Parish, State
UINTAH, UT

12. CHECK APPROPRIATE BOX(ES) TO INIDICATE NATURE OF NOTICE, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Change Status
	☐ Change Plans	☐ Plug & Abandon	☐ Temporarily Abandon	
	☒ Convert to Injector	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The subject well has been converted from a producing oil well to an injection well on 09/15/2010. Angard treatment as follows: mix 15 gals Multi-Chem C-6031 & 5 gals B-8850 in 40 bbls fresh water. Pump dn annulus followed W/ 32 bbls of Angard. PU & set packer W/ SN @ 4546', CE @ 4550' & EOT @ 4555'. Land tbg W/ 15,000# tension. NU wellhead. Halliburton topped off annulus W/ 1/2 BW. Pressure up on Angard to 1490 psi. Bled down to 1450 psi after 15 minutes, then hold solid.

On 09/10/2010 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 09/17/2010 the casing was pressured up to 1600 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not an EPA representative available to witness the test.

EPA# UT21149-07848 API# 43-047-31547

I hereby certify that the foregoing is true and correct *(Printed/ Typed)* Lucy Chavez-Naupoto	Title Administrative Assistant
Signature Lucy Chavez-Naupoto	Date 09/23/2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

RECEIVED
SEP 30 2010
DIV. OF OIL, GAS & MINING

Mechanical Integrity Test
Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: _____ Date: 9 / 17 / 10
Test conducted by: Austin Harrison
Others present: _____

Well Name: Federal 15-8-9-18 Type: ER SWD Status: AC TA UC
Field: Monument Butte
Location: 15 Sec: 8 T 9 N/S R 18 E/W County: Uintah State: UT
Operator: Newfield Production Co.
Last MIT: / / Maximum Allowable Pressure: _____ PSIG

Is this a regularly scheduled test? [ ] Yes [X] No
Initial test for permit? [X] Yes [ ] No
Test after well rework? [ ] Yes [X] No
Well injecting during test? [ ] Yes [X] No If Yes, rate: _____ bpd

Pre-test casing/tubing annulus pressure: 0 psig

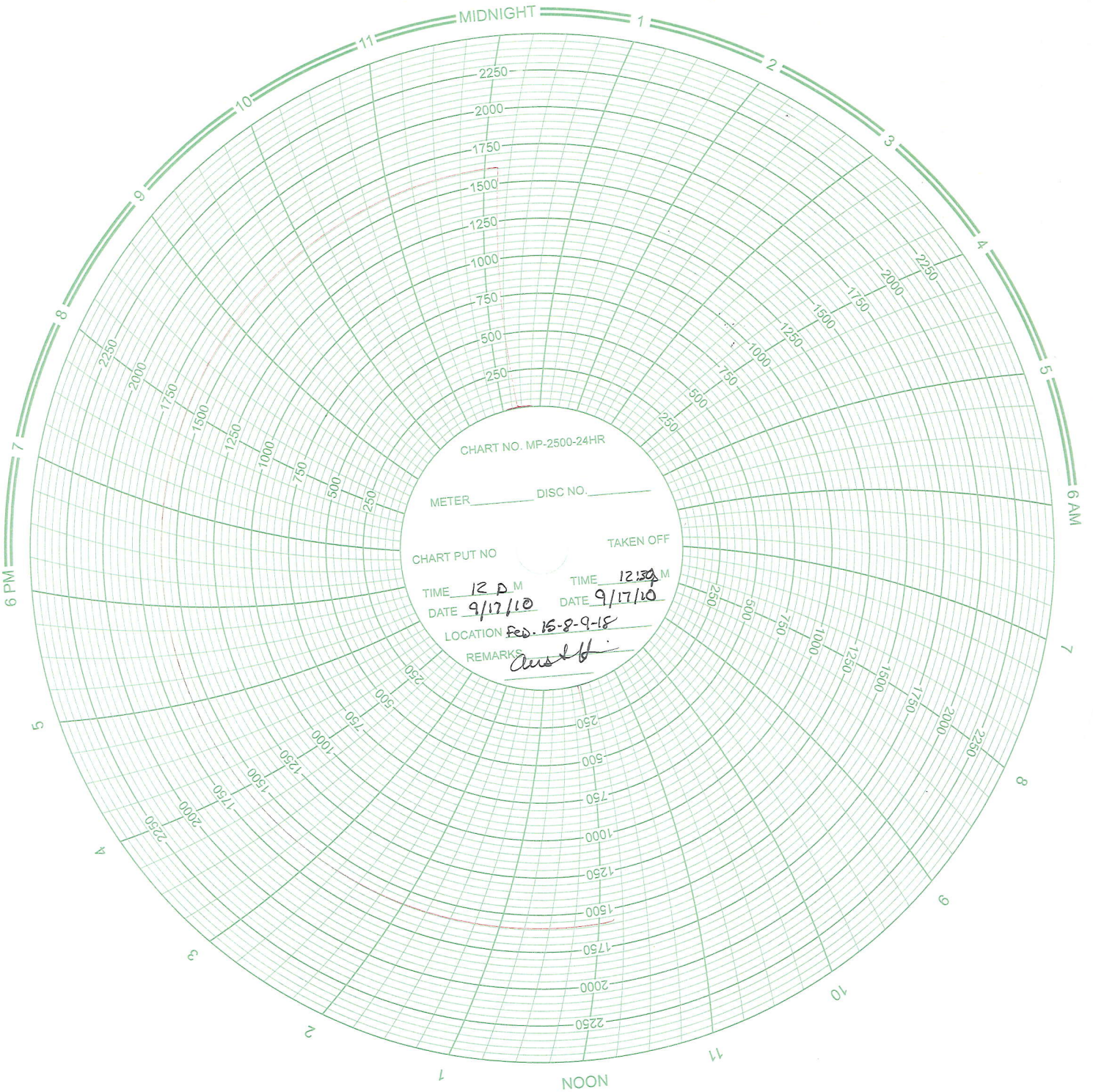
MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING	*PRESSURE*		
Initial Pressure	0 psig	psig	psig
End of test pressure	0 psig	psig	psig
CASING / TUBING	*ANNULUS*	*PRESSURE*	
0 minutes	1600 psig	psig	psig
5 minutes	1600 psig	psig	psig
10 minutes	1600 psig	psig	psig
15 minutes	1600 psig	psig	psig
20 minutes	1600 psig	psig	psig
25 minutes	1600 psig	psig	psig
30 minutes	1600 psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
RESULT	[X] Pass [ ] Fail	[ ] Pass [ ] Fail	[ ] Pass [ ] Fail

Does the annulus pressure build back up after the test ? [ ] Yes [X] No

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

_____


MIDNIGHT
NOON
6 AM
6 PM
CHART NO. MP-2500-24HR
METER DISC NO.
CHART PUT NO
TAKEN OFF
TIME 12 P M
DATE 9/17/10
TIME 12:30 P M
DATE 9/17/10
LOCATION Fed. 16-8-9-18
REMARKS

Daily Activity Report

Format For Sundry

FEDERAL 15-8-9-18

7/1/2010 To 11/30/2010

9/7/2010 Day: 1 **Conversion**

Rigless on 9/7/2010 - Conversion MIT. - - On 9-10-2010 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above well listed.[Federal 15-9-18] On 9-17-2010 the csg was pressured up to 1600 psig and charted for 30 minutes with no pressure loss. The well was not injecting at the time of the test. The tubing pressure was 0 psig during the test. There was not an EPA representive available to witness the test. UT #21149-07848
Daily Cost: $0
Cumulative Cost: $31,740

9/13/2010 Day: 2 **Conversion**

Nabors #809 on 9/13/2010 - MIRUSU. LD rod string & pump. Start TOH W/ production tbg. - MIRU Nabors rig #809. RU HO trk & pump 60 BW dn annulus @ 250°F. RD pumping unit & unseat rod pump. Flush tbg & rods W/ 40 BW @ 250°F. Re-seat pump, soft joint rod string & strip off flow-T. Fill tbg W/ 5 BW & pressure test to 3000 psi. Retrieve rod string & unseat pump. LD rod string & pump. Re-flushed rods W/ add'l 30 BW on TOH. ND wellhead & release TA @ 5536'. NU BOP. TOH & talley production tbg. Pulled 16 jts & TA hung up--worked free W/ tongs after 30 minutes. Con't TOH, break each connection, clean & inspect pins and apply Liquid O-ring to pins. 30 jts out total.
Daily Cost: $0
Cumulative Cost: $95,643

9/14/2010 Day: 3 **Conversion**

Nabors #809 on 9/14/2010 - Finished TOH W/ production string. Made bit & scraper run due to heave scale on tbg OD. - RU HO trk & flush tbg W/ 30 BW @ 250°F. Con't TOH & talley tbg. Break each connection, clean & inspect pins and apply Liquid O-ring to pins. Many joints are extremely tigh. Some collars can't be broke while others are gaulding. LD 39 jts total tbg and BHA. Found heavy scale on OD of lower section of tbg string. Had hot oiler pump 30 BW dn casing to keep OD clean. MU & TIH W/ 4 3/4" tooth bit, 5 1/2" casing scraper and 142 jts of original production string. Talley & PU 39 jts of 2 7/8 work string to clear perfs (no drag). LD 35 jts of work string & TOH standing 146 jts of tbg--LD bit & scraper. Flushed tbg W/ 30 BW & pumped 30 BW dn annulus while TOH. SIFN.
Daily Cost: $0
Cumulative Cost: $106,882

9/15/2010 Day: 4 **Conversion**

Nabors #809 on 9/15/2010 - Isolated casing leak. TIH W/ packer & test injection string. - TIH W/ Weatherford 5 1/2" "TS" RBP, RH, tbg sub, 5 1/2" "HD" pkr & tbg. Isolate casing in several settings to determine results: from 1343' to 4548' held 1500 psi for 30 minutes, and from sfc to 1249' held 1500 psi for 30 minutes. Leakoff between these settings of 1100 psi in 15 minutes. Release tools & TOH. MU new Weatherford 5 1/2" Arrowset 1-X packer, new 2 7/8 SN & TIH W/ 146 jts 2 7/8 8rd 6.5# J-55 tbg. RU HO trk & pump 10 bbl pad. Drop standing valve & chase to SN. Pressure test tbg to 3000 psi. First test lost 400 psi in 30 minutes. Re-pressure tbg to 3000 psi & SIFN.

Daily Cost: $0
Cumulative Cost: $116,859

9/16/2010 Day: 5 **Conversion**

Nabors #809 on 9/16/2010 - Confirmed tbg test. Pump packer fluids & Angard to cover casing leak. Set & test packer. RDMOSU. - Perform MIT. Run Vaughn Energy Services gyro survey. - 9/16/20----------Casing pressure @ 1700 psi. RDMOSU. - SITP @ 2500 psi. Bleed off small amount of air. RU HO trk & re-pressure tbg to 3000 psi. Holds solid for 30 minutes. Retrieve SV W/ overshot on sandline. ND BOP. Add tbg sub below B-1 adapter flange & land tbg on wellhead. RU Halliburton. Mix 15 gals Multi-Chem C-6031 & 5 gals B-8850 in 40 bbls fresh water. Pump dn annulus followed W/ 32 bbls of Angard. PU & set packer W/ SN @ 4546', CE @ 4550' & EOT @ 4555'. Land tbg W/ 15,000# tension. NU wellhead. Halliburton topped off annulus W/ 1/2 BW. Pressure up on Angard to 1490 psi. Bled down to 1450 psi after 15 minutes, then hold solid. Leave pressure on well. RD Halliburton.
Daily Cost: $0
Cumulative Cost: $139,222

9/27/2010 Day: 6 **Conversion**

Rigless on 9/27/2010 - Conversion MIT - - On 9-10-2010 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above well listed [15-8-9-18]. On 9-17-2010 the casing was pressured up to 1600 psig and charted for 30 minutes with no pressure loss. The well was not injecting at the time of the test. The tubing was 0 psig during the test. There was not an EPA representive availble to witness the test. UT #21149-07848 **Finalized**
Daily Cost: $0
Cumulative Cost: $170,962

Pertinent Files: Go to File List

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8
1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
http://www.epa.gov/region08

OCT 15 2010

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Michael Guinn
District Manager
Newfield Production Company
Route 3 – Box 3630
Myton, UT 84052

RE: Underground Injection Control (UIC)
Limited Authorization to Inject
EPA UIC Permit UT21149-07848
Federal No.15-8-9-18
SWSE Sec. 8-T9S-R18E
Uintah County, Utah
API No.: 43-047-31547

Dear Mr. Guinn:

The U.S Environmental Protection Agency (EPA), Region 8, has received Newfield Production Company's (Newfield) September 23, 2010, letter with enclosures. The enclosed Part I (Internal) Mechanical Integrity Test (MIT), Well Rework Record (EPA Form No. 7520-12), schematic diagram, and calculated pore pressure were reviewed and approved by EPA, satisfactorily completing all Prior to Commencing Injection requirements for UIC Permit UT21149-07848.

As of the date of this letter, Newfield is authorized to commence injection into Federal 15-8-9-18 at a Maximum Allowable Injection Pressure (MAIP) of 1,121 psig for a limited period of 180 days, during which time a Radioactive Tracer Survey (RTS) is required, according to UIC Permit UT21149-07848. If Newfield seeks a higher MAIP than 1,121 psig, it may be advantageous to run a step rate test prior to conducting the RTS because a RTS conducted at the higher MAIP will be required. Newfield must receive prior authorization from the Director to inject at pressures greater than the permitted MAIP during any test.

Please remember that it is Newfield's responsibility to be aware of and to comply with all conditions of Permit UT21149-07848.

If you have questions regarding the above action, please call Emmett Schmitz at 303-312-6174 or 1-800-227-8917, ext. 312-6174. Results from the RTS should be mailed to the attention of Jason Deardorff at the letterhead address, citing mail code 8P-W-GW.

Sincerely,

for Stephen S. Tuber
Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

cc: Uintah & Ouray Business Committee:
Frances Poowegup, Vice-Chairwoman
Curtis Cesspooch, Councilman
Phillip Chimburas, Councilman
Stewart Pike, Councilman
Irene Cuch, Councilwoman
Richard Jenks, Jr., Councilman

Daniel Picard
BIA - Uintah & Ouray Indian Agency

Mike Natchees
Environmental Coordinator
Ute Indian Tribe

Manual Myore
Director of Energy & Minerals Dept.
Ute Indian Tribe

Brad Hill
Acting Associate Director
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office
BLM - Vernal Office

Eric Sundberg, Regulatory Analyst
Newfield Production Company
Denver, CO

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

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:	USA UTU-16540
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
7. UNIT or CA AGREEMENT NAME:	GMBU
1. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER	8. WELL NAME and NUMBER: FEDERAL 15-8-9-18
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	9. API NUMBER: 4304731547
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER 435.646.3721	10. FIELD AND POOL, OR WILDCAT: GREATER MB UNIT
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 660 FSL 1977 FEL	COUNTY: UINTAH
OTR/OTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE, 8, T9S, R18E	STATE: UT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
[X] NOTICE OF INTENT (Submit in Duplicate)	[ ] ACIDIZE	[ ] DEEPEN	[ ] REPERFORATE CURRENT FORMATION
Approximate date work will	[ ] ALTER CASING	[ ] FRACTURE TREAT	[ ] SIDETRACK TO REPAIR WELL
11/02/2010	[ ] CASING REPAIR	[ ] NEW CONSTRUCTION	[ ] TEMPORARITLY ABANDON
	[ ] CHANGE TO PREVIOUS PLANS	[ ] OPERATOR CHANGE	[ ] TUBING REPAIR
	[ ] CHANGE TUBING	[ ] PLUG AND ABANDON	[ ] VENT OR FLAIR
[ ] SUBSEQUENT REPORT (Submit Original Form Only)	[ ] CHANGE WELL NAME	[ ] PLUG BACK	[ ] WATER DISPOSAL
Date of Work Completion:	[ ] CHANGE WELL STATUS	[ ] PRODUCTION (START/STOP)	[ ] WATER SHUT-OFF
	[ ] COMMINGLE PRODUCING FORMATIONS	[ ] RECLAMATION OF WELL SITE	[X] OTHER: - Put on Injection
	[X] CONVERT WELL TYPE	[ ] RECOMPLETE - DIFFERENT FORMATION	

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

The above reference well was put on injection at 1:00 PM on 11/02/2010.

EPA # UT21149-07848 API # 43-047-31547

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

RECEIVED
NOV 08 2010
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Lucy Chavez-Naupoto TITLE Administrative Assistant

SIGNATURE [signature] DATE 11/02/2010

(This space for State use only)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8
1595 Wynkoop Street
Denver, CO 80202-1129
Phone 800-227-8917
http://www.epa.gov/region08

DEC 30 2010

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Michael Guinn
District Manager
Newfield Production Company
Route 3-Box 3630
Myton, UT 84502

Accepted by the
Utah Division of
Oil, Gas and Mining

FOR RECORD ONLY

RE: Underground Injection Control (UIC)
Authorization to Continue Injection
EPA UIC Permit UT21149-07848
Well: Federal 15-8-9-18
SWSE Sec. 8-T9S-R18E
Uintah County, UT
API No.: 43-047-31547

Dear Mr. Guinn:

The U.S. Environmental Protection Agency (EPA), Region 8, received the results of the November 22, 2010, Radioactive Tracer Survey (RTS) for the Federal 15-8-9-18 well. EPA determined the test demonstrates the presence of adequate cement to prevent the upward migration of injection fluids from the injection zone at the Maximum Allowable Injection Pressure (MAIP) of 1,121 psig.

As of the date of this letter, EPA hereby authorizes continued injection into the Federal 15-8-9-18 well under the terms and conditions of UIC Permit UT21149-07848.

You may apply for a higher MAIP at a later date. Your application should be accompanied by the interpreted results of a Step Rate Test (SRT) that measures the formation parting pressure and determines the fracture gradient at this depth and location. Newfield must receive prior authorization from the Director in order to inject at pressures greater than the permitted MAIP during any test. A current copy of EPA guidelines for running and interpreting SRTs will be sent upon request. Should the SRT result in approval of a higher MAIP, a subsequent RTS conducted at the higher MAIP is required.

As of this approval, responsibility for permit compliance and enforcement is transferred to EPA's UIC Technical Enforcement Program. Therefore, please direct all monitoring and compliance correspondence to Nathan Wiser at the following address, referencing the well name and UIC Permit number on all correspondence:

Mr. Nathan Wiser
U.S. EPA Region 8: 8ENF-UFO
1595 Wynkoop Street
Denver, CO 80202-1129

Or, you may reach Mr. Wiser by telephone at 303-312-6211, or 1 800-227-8927, ext. 312-6211. Please remember that it is your responsibility to be aware of and to comply with all conditions of injection well Permit UT21149-07848.

If you have questions regarding the above action, please call Jason Deardorff at 303-312-6583 or 1-800-227-8917, ext. 312-6583.

Sincerely,

for Stephen S. Tuber
Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

cc: Uintah & Ouray Business Committee:
Richard Jenks, Jr., Chairman
Frances Poowegup, Vice-Chairwoman
Curtis Cesspooch, Councilman
Phillip Chimburas, Councilman
Stewart Pike, Councilman
Irene Cuch, Councilwoman

Daniel Picard
BIA - Uintah & Ouray Indian Agency

Mike Natchees
Environmental Coordinator
Ute Indian Tribe

Manual Myore
Director of Energy & Minerals Dept.
Ute Indian Tribe

Brad Hill
Acting Associate Director
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office
BLM - Vernal Office

Eric Sundberg
Regulatory Analyst
Newfield Production Company

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-16540

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.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)

1. TYPE OF WELL Water Injection Well

8. WELL NAME and NUMBER: FEDERAL 15-8-9-18

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 43047315470000

3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052

PHONE NUMBER: 435 646-4825 Ext

9. FIELD and POOL or WILDCAT: 8 MILE FLAT NORTH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0660 FSL 1977 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 08 Township: 09.0S Range: 18.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☑ SUBSEQUENT REPORT Date of Work Completion: 8/19/2015	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☑ OTHER	OTHER: 5 YR MIT

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

5 YR MIT performed on the above listed well. On 08/19/2015 the casing was pressured up to 1092 psig and charted for 30 minutes with no pressure loss. The well was injecting during the test. The tbg pressure was 1318 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-07848

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
August 24, 2015

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Lucy Chavez-Naupoto	435 646-4874	Water Services Technician
SIGNATURE N/A		**DATE** 8/20/2015

RECEIVED: Aug. 20, 2015

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: _____ Date: Aug 19 15

Test conducted by: JOHNNY SLIM

Others present: _____

-07848

Well Name: FEDERAL 15-8-9-18 Type: ER SWD Status: AC TA UC

Field: GREATER MONUMENT BUTTS UNIT

Location: SW/SE Sec: 8 T 9 N (S) R 18 (E) W County: UINTAH State: UT

Operator: NEWFIELD EXPLORATION COMPANY

Last MIT: / / Maximum Allowable Pressure: 1362 PSIG

Is this a regularly scheduled test? [X] Yes [ ] No

Initial test for permit? [ ] Yes [X] No

Test after well rework? [ ] Yes [X] No

Well injecting during test? [X] Yes [ ] No If Yes, rate: 48 bpd

Pre-test casing/tubing annulus pressure: 0/1319 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING	*PRESSURE*		
Initial Pressure	1319 psig	psig	psig
End of test pressure	1318 psig	psig	psig
CASING / TUBING	*ANNULUS*	*PRESSURE*	
0 minutes	1095 psig	psig	psig
5 minutes	1096 psig	psig	psig
10 minutes	1095 psig	psig	psig
15 minutes	1094 psig	psig	psig
20 minutes	1093 psig	psig	psig
25 minutes	1093 psig	psig	psig
30 minutes	1092 psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
RESULT	[X] Pass [ ] Fail	[ ] Pass [ ] Fail	[ ] Pass [ ] Fail

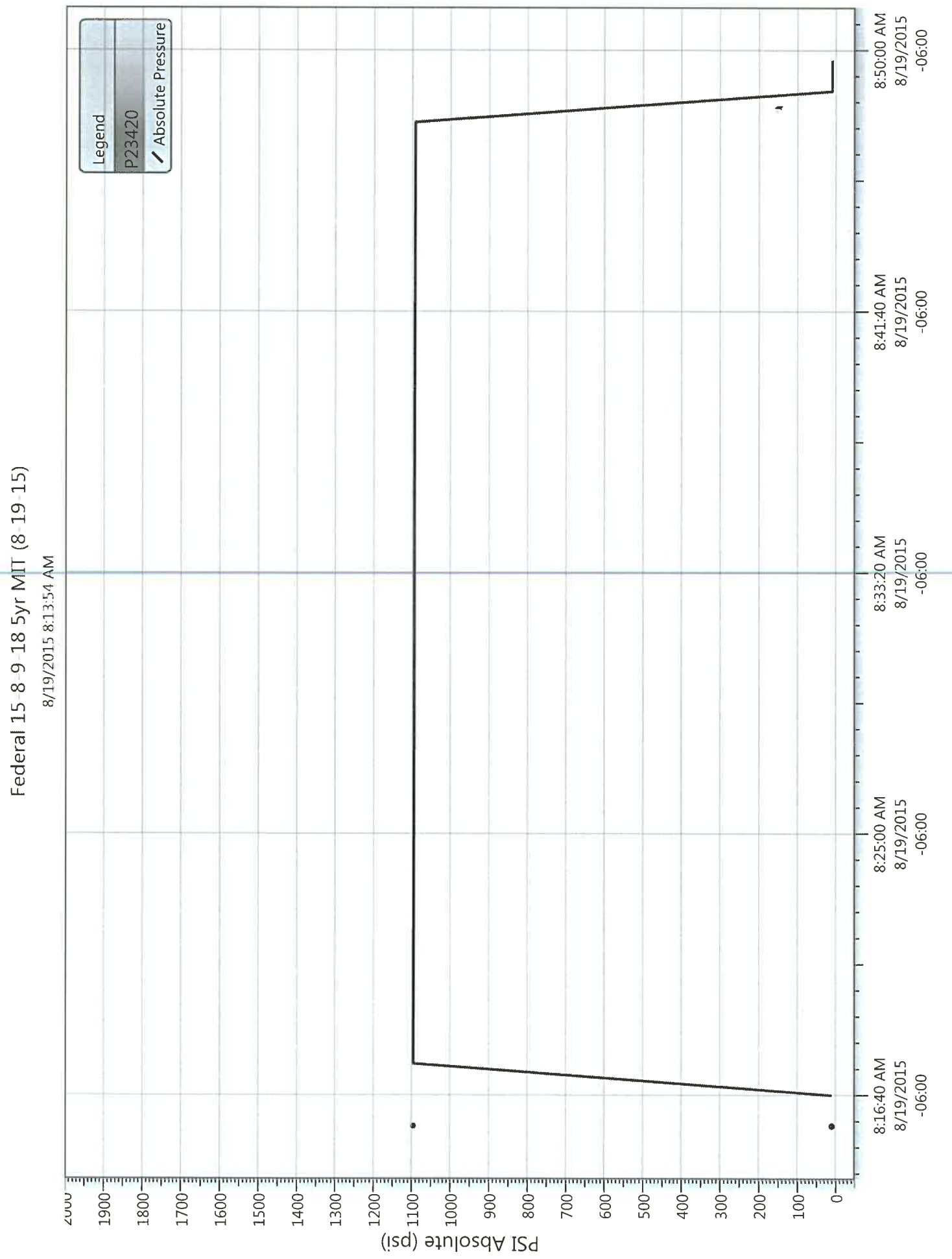
Does the annulus pressure build back up after the test ? [ ] Yes [✓] No

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

_____

Signature of Witness: _____


Federal 15-8-9-18 5yr MIT (8-19-15)
8/19/2015 8:13:54 AM
Legend
P23420
Absolute Pressure
PSI Absolute (psi)
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
8:16:40 AM
8/19/2015
-06:00
8:25:00 AM
8/19/2015
-06:00
8:33:20 AM
8/19/2015
-06:00
8:41:40 AM
8/19/2015
-06:00
8:50:00 AM
8/19/2015
-06:00

NEWFIELD

Schematic

43-047-31547

Well Name: Federal 15-8-9-18

Surface Legal Location	API/UWI	Well RC	Lease	State/Province	Field Name	County
08-9S-18E	43047315470000	500151235		Utah	GMBU CTB10	Uintah

Spud Date	Rig Release Date	On Production Date	Original KB Elevation (ft)	Ground Elevation (ft)	Total Depth All (TVD) (ftKB)	PBTD (All) (ftKB)
		12/10/1984	5,056	5,046		Original Hole - 0.0

Most Recent Job

Job Category	Primary Job Type	Secondary Job Type	Job Start Date	Job End Date
Testing	Logging	N/A	11/13/2015	11/13/2015

TD: 5,924.0 Vertical - Original Hole, 3/30/2016 12:17:26 PM

MD (ftKB)	TVD (ftKB)	Incl (°)	DLS DLS (°...	Vertical schematic (actual)
9.8				
322.2				
323.2				1; Surface; 8 5/8 in; 8.097 in; 10-323 ftKB; 313.00 ft
660.1				
4,546.3				3-1; Tubing; 2 7/8; 2.441; 10-4,546; 4,536.40
4,547.6				3-2; Pump Seating Nipple; 2 7/8; 2.441; 4,546-4,547; 1.10
4,555.1				3-3; Packer; 5 1/2; 4.950; 4,547-4,555; 7.50
4,595.1				
4,612.9				Perforated; 4,595-4,613; 3/13/2009
5,346.1				
5,354.0				Perforated; 5,346-5,354; 12/5/1984
5,367.1				Perforated; 5,346-5,367; 3/13/2009
5,405.8				
5,416.0				Perforated; 5,406-5,430; 3/13/2009
5,421.9				
5,428.1				Perforated; 5,422-5,428; 12/5/1984
5,430.1				
5,487.9				Perforated; 5,416-5,488; 12/5/1984
5,522.0				
5,527.9				Perforated; 5,522-5,528; 3/13/2009
5,534.1				
5,542.0				Perforated; 5,534-5,542; 3/13/2009
5,570.9				
5,578.1				Perforated; 5,571-5,578; 3/13/2009
5,878.0				
5,878.6				
5,921.3				
5,921.9				2; Production; 5 1/2 in; 4.950 in; 10-5,922 ftKB; 5,912.00 ft
5,923.9				

NEWFIELD

Newfield Wellbore Diagram Data
Federal 15-8-9-18

Surface Legal Location		API/UWI	Lease
08-9S-18E		43047315470000	
County	**State/Province**	**Basin**	**Field Name**
Uintah	Utah		GMBU CTB10
Well Start Date	**Spud Date**	**Final Rig Release Date**	**On Production Date**
10/24/1984			12/10/1984
Original KB Elevation (ft) / **Ground Elevation (ft)**	**Total Depth (ftKB)**	**Total Depth All (TVD) (ftKB)**	**PBTD (All) (ftKB)**
5,056 / 5,046	5,924.0		Original Hole - 0.0

Casing Strings

Csg Des	Run Date	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	Set Depth (ftKB)
Surface	10/24/1984	8 5/8	8.097	24.00	J-55	323
Production	11/2/1984	5 1/2	4.950	15.50	J-55	5,922

Cement

String: Surface, 323ftKB 10/26/1984

Cementing Company	Top Depth (ftKB)	Bottom Depth (ftKB)	Full Return?	Vol Cement Ret (bbl)
BJ Services Company	10.0	323.0		

Fluid Description	Fluid Type	Amount (sacks)	Class	Estimated Top (ftKB)
	Lead	220	G	10.0

String: Production, 5,922ftKB 11/2/1984

Cementing Company	Top Depth (ftKB)	Bottom Depth (ftKB)	Full Return?	Vol Cement Ret (bbl)
BJ Services Company	660.0	5,924.0		

Fluid Description	Fluid Type	Amount (sacks)	Class	Estimated Top (ftKB)
	Lead	400	G	10.0
	Tail	275	G	2,500.0

Tubing Strings

Tubing Description	Run Date	Set Depth (ftKB)
Tubing	9/7/2010	4,555.0

Item Des	Jts	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)
Tubing	146	2 7/8	2.441	6.50	J-55	4,536.40	10.0	4,546.4
Pump Seating Nipple	1	2 7/8	2.441			1.10	4,546.4	4,547.5
Packer	1	5 1/2	4.950			7.50	4,547.5	4,555.0

Rod Strings

Rod Description	Run Date	Set Depth (ftKB)

Item Des	Jts	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)

Perforation Intervals

Stage#	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Phasing (°)	Nom Hole Dia (in)	Date
4	D2, Original Hole	4,595	4,613	4			3/13/2009
1	CP1, Original Hole	5,346	5,354	4			12/5/1984
3	CP1/CP2, Original Hole	5,346	5,367	4			3/13/2009
3	CP1/CP2, Original Hole	5,406	5,430	4			3/13/2009
1	CP1, Original Hole	5,416	5,488	4			12/5/1984
1	CP1, Original Hole	5,422	5,428	4			12/5/1984
2	CP4, Original Hole	5,522	5,528	4			3/13/2009
2	CP4, Original Hole	5,534	5,542	4			3/13/2009
2	CP4, Original Hole	5,571	5,578	4			3/13/2009

Stimulations & Treatments

Stage#	ISIP (psi)	Frac Gradient (psi/ft)	Max Rate (bbl/min)	Max PSI (psi)	Total Clean Vol (bbl)	Total Slurry Vol (bbl)	Vol Recov (bbl)
1							
2	2,099		16.2	4,106			
3	1,490		16.4	3,139			
4	2,099		16.2	4,106			

Proppant

Stage#	Total Prop Vol Pumped (lb)	Total Add Amount
1		
2		
3		
4		