Form DOGC-1a

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

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

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: BOW VALLEY PETROLEUM, INC.

3. ADDRESS OF OPERATOR: P. O. DRAWER 130, ROOSEVELT, UT 84066

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1516' FWL, 1546' FSL, Sec. 21, T1S R1W, U.S.M.
At proposed prod. zone:

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: See Attached Map

5. LEASE DESIGNATION AND SERIAL NO.: FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: LAWSON

9. WELL NO.: 1-21A1

10. FIELD AND POOL, OR WILDCAT: ~~BLUEBELL-WASATCH~~

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 21, T1S, R1W

12. COUNTY OR PARISH: DUCHESNE

13. STATE: UTAH

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

16. NO. OF ACRES IN LEASE: 598.5

17. NO. OF ACRES ASSIGNED TO THIS WELL: 640

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

19. PROPOSED DEPTH: 15,700'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 5352' GR

22. APPROX. DATE WORK WILL START*: Feb. 15, 1983

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8"	40#	2,500'	900 SX (Cmt to Surf)
8 3/4"	7"	26, 29, 32#	11,300'	1000 SX
6"	5"	18#	15,700'	700 SX

This is a test of the Tertiary Wasatch Formation. Both the Wasatch and Lower Green River Formations will be completed and co-mingled in time.

Minimum 3,000 PSI BOPE will be installed and pressure tested to 3,000 PSI prior to drilling the casing shoe at 2,500 ft.

Minimum 5,000 PSI BOPE will be installed and tested to 5,000 PSI prior to drilling the casing shoe at 11,300'. After drilling the casing shoe, the casing seat will be tested to an EMW of 14 PPG.

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 2-3-83
BY: [signature]

RECEIVED FEB 01 1983 DIVISION OF OIL GAS & MINING

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: D.G. HOWARD TITLE: District Superintendent DATE: Jan. 27, 1983

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

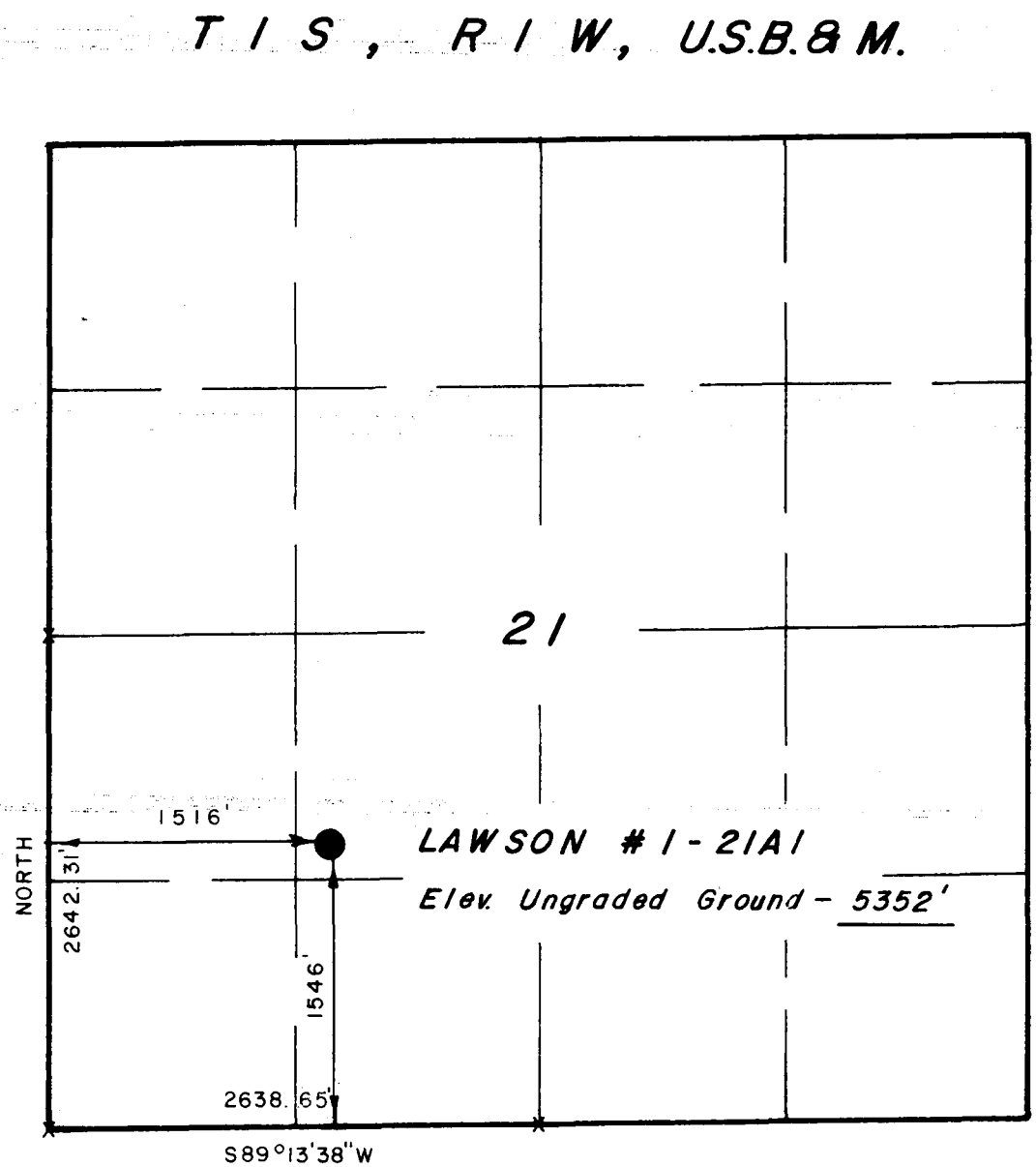
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

PROJECT

BOW VALLEY PETROLEUM INC.

Well location, *LAWSON #1-21A1*, located as shown in the NE 1/4 SW 1/4 Section 21, T1S, R1W, U.S. B &M. Duchesne County, Utah



X = Section Corners Located

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.

REGISTERED LAND SURVEYOR
REGISTRATION Nº 3154
STATE OF UTAH

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

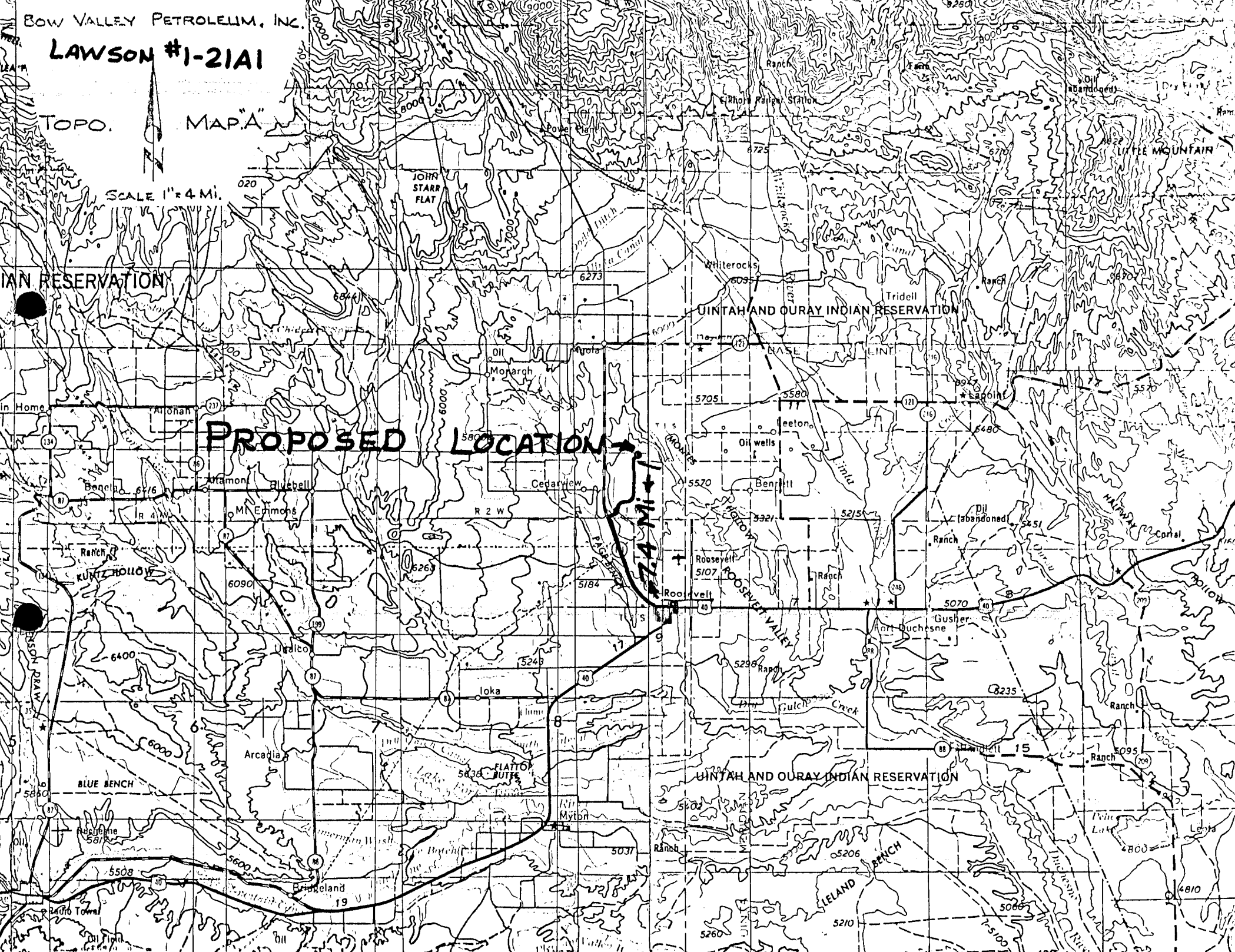
SCALE 1" = 1000'	DATE 12/6/82
PARTY G.S. T.J. R.T. S.B.	REFERENCES GLO Plat
WEATHER Partly Cloudy, Cool	FILE BOW VALLEY

BOW VALLEY PETROLEUM, INC.

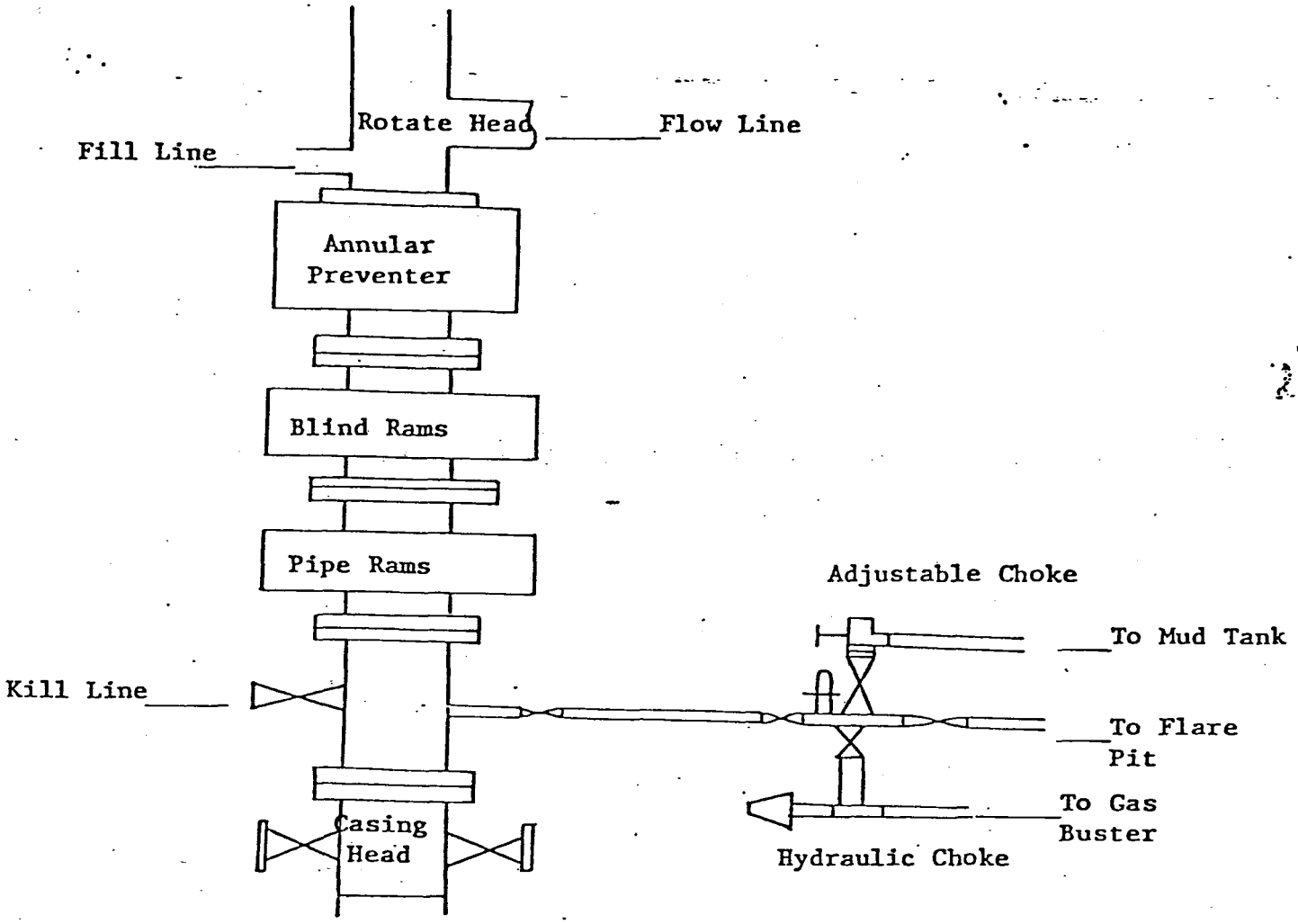
LAWSON #1-21A1

TOPO. MAP "A"

SCALE 1" = 4 MI.



BOW VALLEY PETROLEUM BLOW OUT PREVENTION EQUIPMENT



Minimum 3,000 PSI BOPE is to be installed after setting surface pipe. All preventers are to be tested prior to drilling out casing shoe.

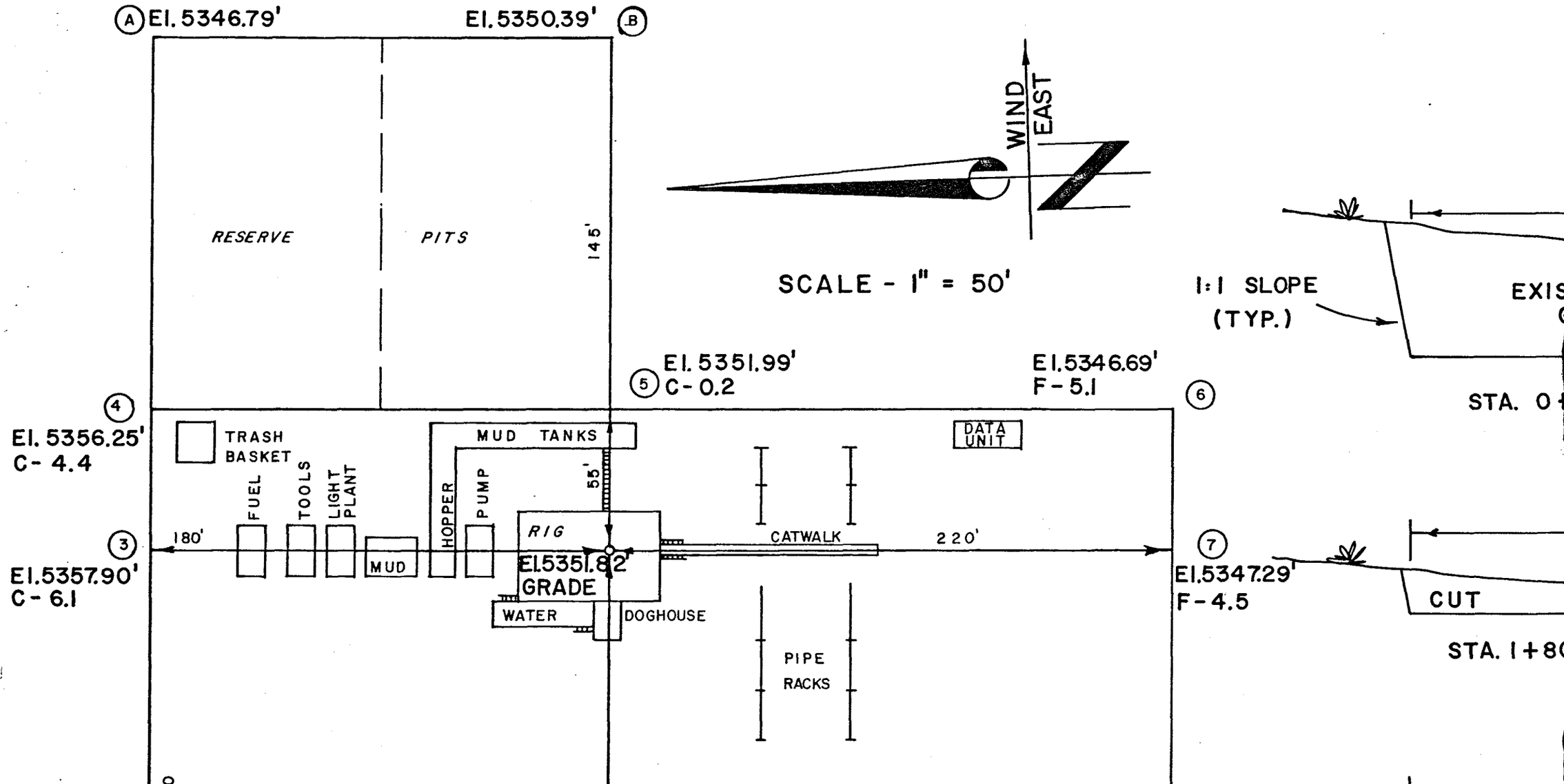
Minimum 5,000 PSI BOPE is to be installed after setting the long string. The pipe rams and blind rams are to be tested to 5,000 PSI and the annular preventer to 1,500 PSI prior to drilling out shoe.

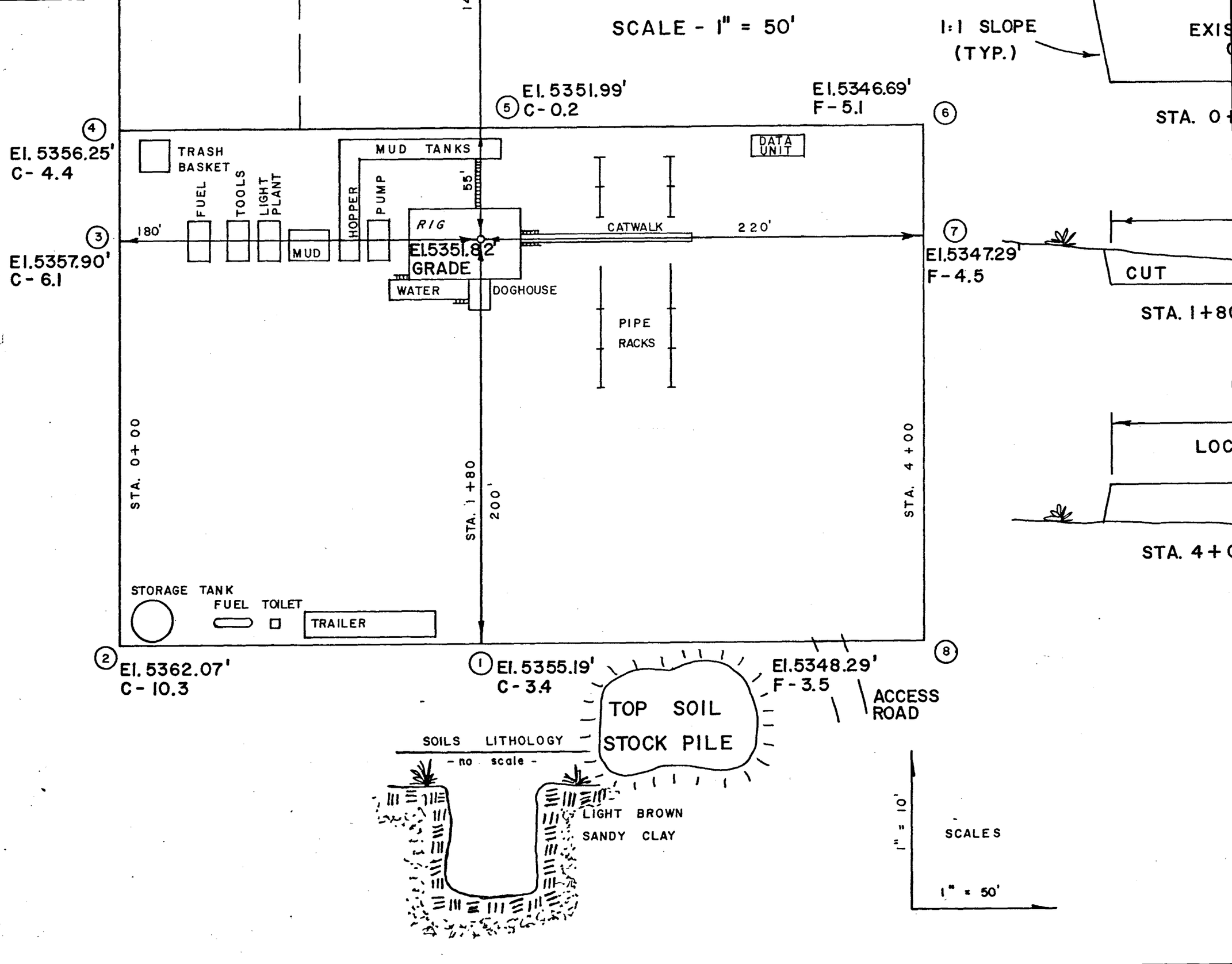
All auxillary BOPE will be tested to appropriate pressures when BOP's are tested. (Manifold, upper and lower kelly cocks, valves, and inside BOP).

After drilling the shoe, the casing seat will be pressure tested to an equivalent mud weight of 14.0 ppg.

BOW VALLEY

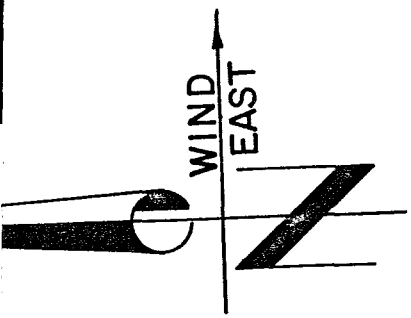
LAWSON



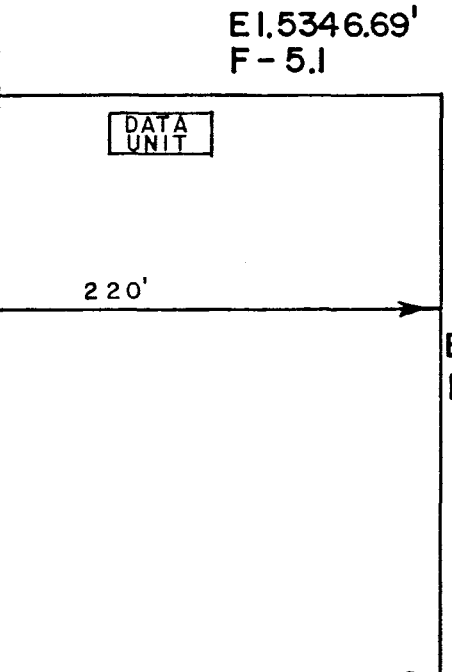

SCALE - 1" = 50'
1:1 SLOPE (TYP.)
EXIS
STA. 0+
El. 5351.99'
C - 0.2
El. 5346.69'
F - 5.1
El. 5356.25'
C - 4.4
TRASH BASKET
FUEL
TOOLS
LIGHT PLANT
MUD TANKS
HOPPER
PUMP
55'
DATA UNIT
RIG
CATWALK
220'
180'
MUD
El. 5351.82'
GRADE
WATER
DOGHOUSE
El. 5357.90'
C - 6.1
El. 5347.29'
F - 4.5
CUT
STA. 1+8
PIPE RACKS
STA. 0+00
STA. 1+80
200'
STA. 4+00
LOC
STA. 4+
STORAGE TANK
FUEL
TOILET
TRAILER
El. 5362.07'
C - 10.3
El. 5355.19'
C - 3.4
El. 5348.29'
F - 3.5
ACCESS ROAD
TOP SOIL STOCK PILE
SOILS LITHOLOGY
- no scale -
LIGHT BROWN SANDY CLAY
1" = 10'
SCALES
1" = 50'

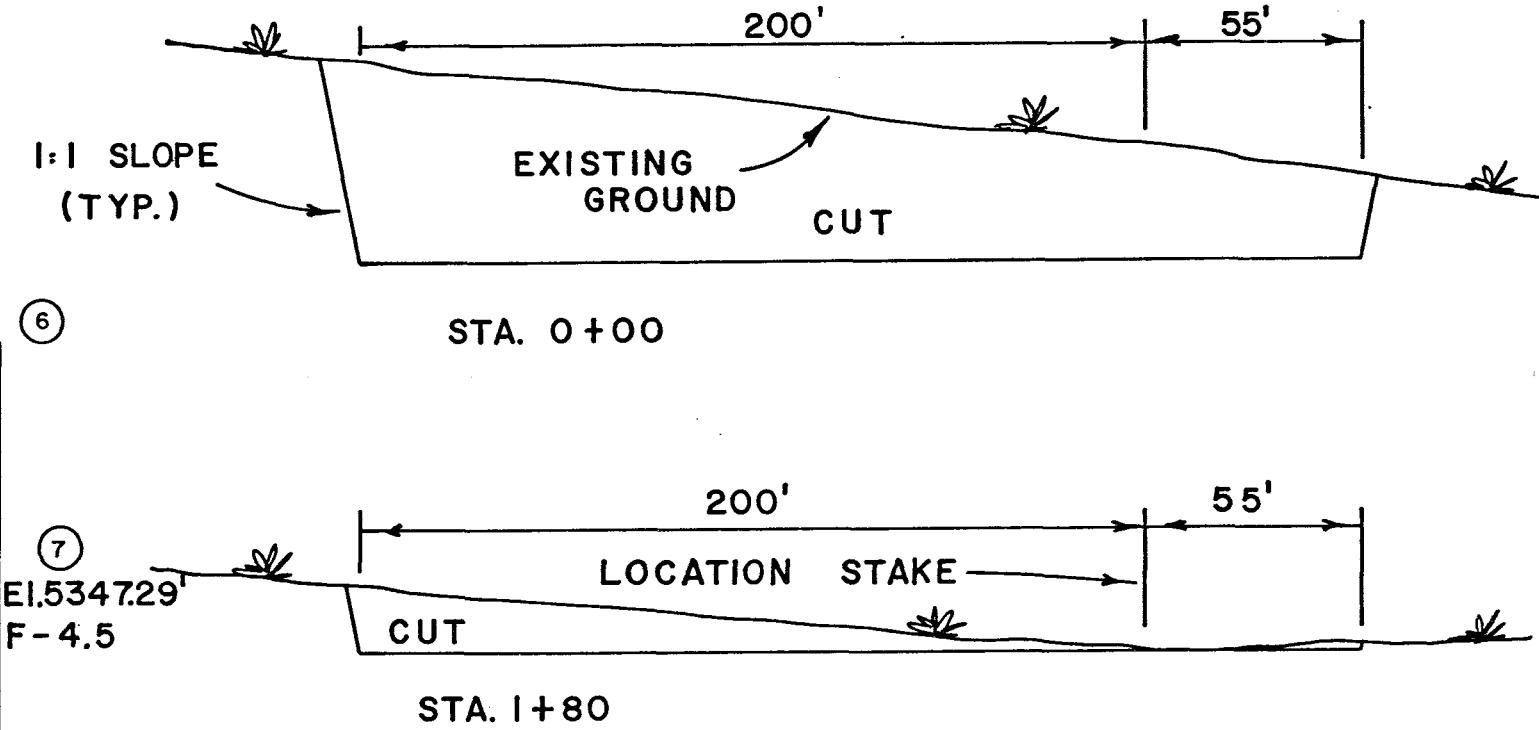
BOW VALLEY PETROLEUM INC.

LAWSON #1-21A1



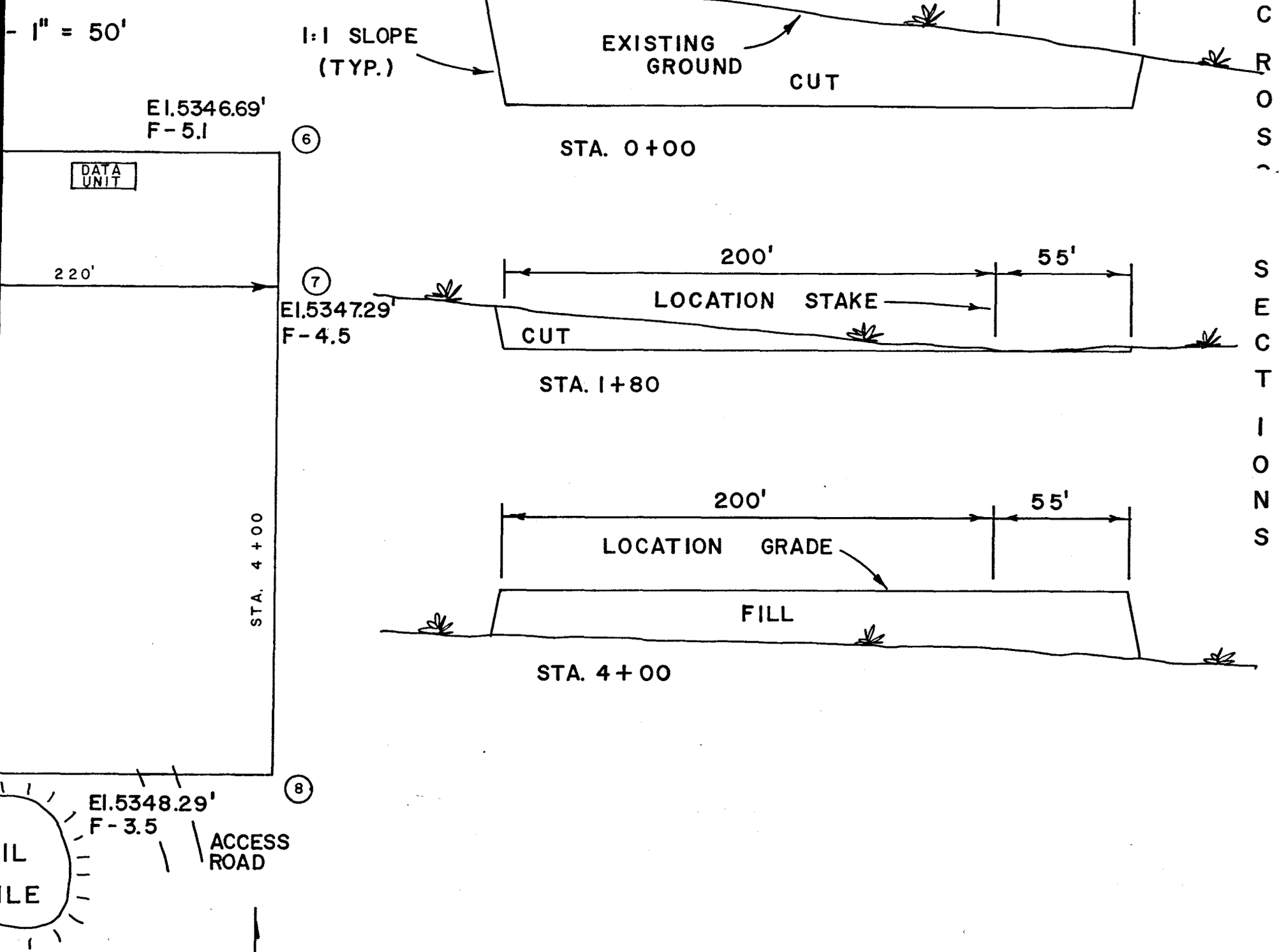
- 1" = 50'





CROSS SECTION

- 1" = 50'



SCALES

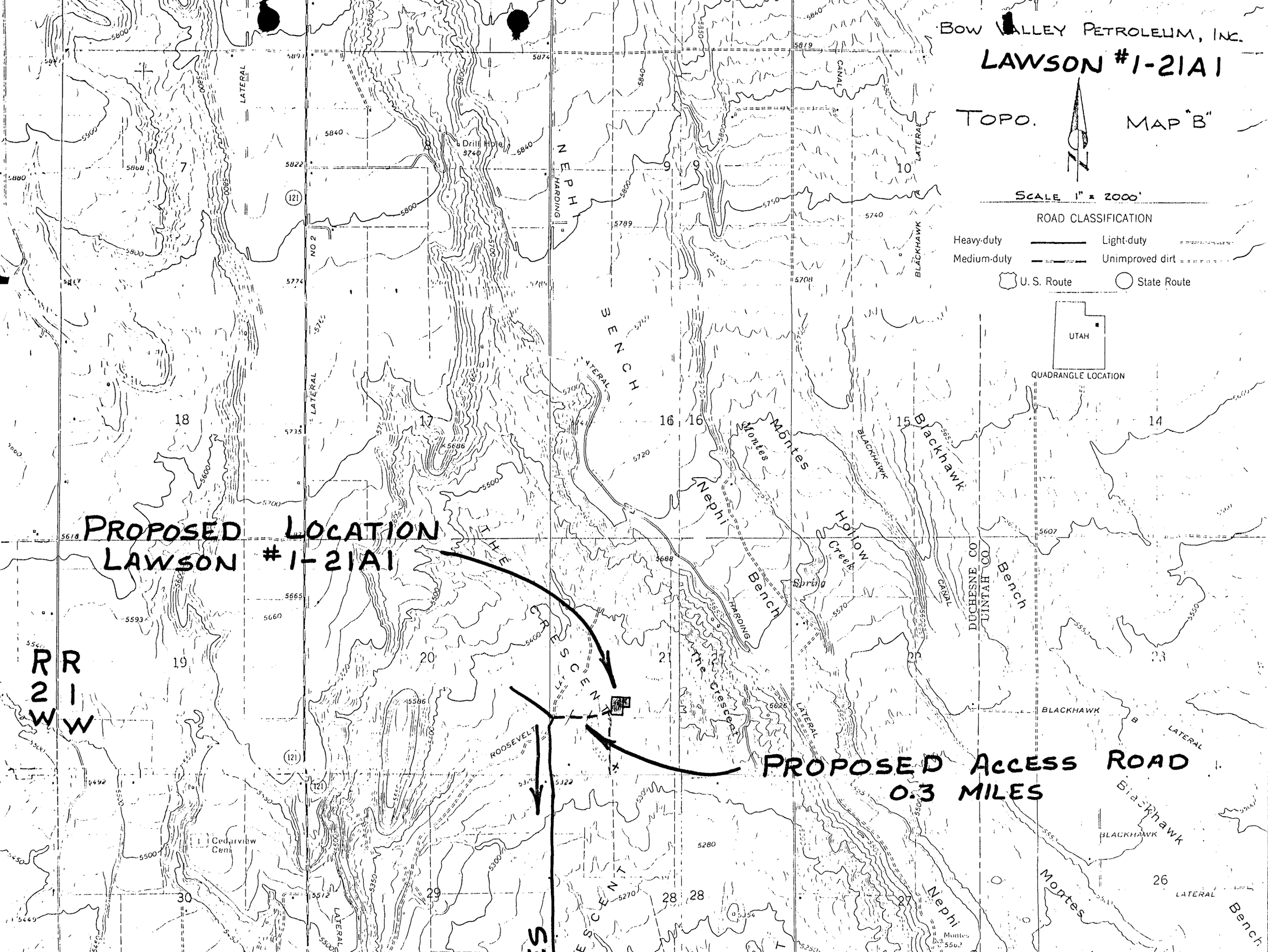
1" = 10'

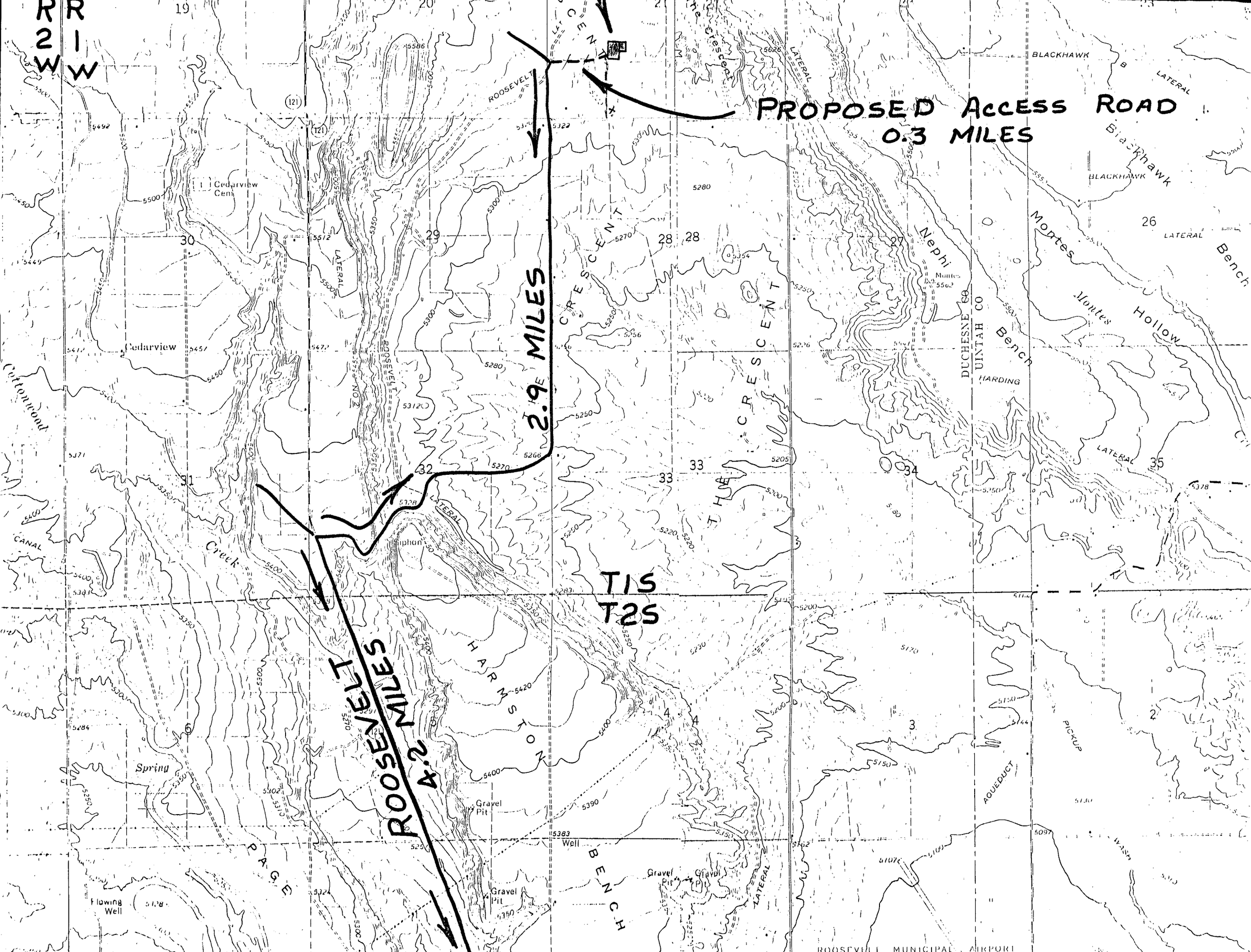
1" = 50'

APPROXIMATE YARDAGES

CUBIC YARDS CUT - 9,062

CUBIC YARDS FILL - 4,041


BOW VALLEY PETROLEUM, INC.
LAWSON #1-21A1
TOPO. MAP "B"
SCALE 1" = 2000'
ROAD CLASSIFICATION
Heavy-duty
Light-duty
Medium-duty
Unimproved dirt
U. S. Route
State Route
UTAH
QUADRANGLE LOCATION
PROPOSED LOCATION
LAWSON #1-21A1
PROPOSED ACCESS ROAD
0.3 MILES
R 2 W
R 1 W
NEPHI BENCH
THE CRESCENT
Montes Nephi
Montes Nephi Bench
Blackhawk
Hollow Creek
Spring
The Crescent
Cedarview Cem
Drill Hole
DUCHESNE CO
UINTAH CO
LATERAL
CANAL
HARDING
ROOSEVELT
BLACKHAWK
NO 2


R 2 W
R 1 W
PROPOSED ACCESS ROAD
0.3 MILES
2.9 MILES
ROOSEVELT
4.2 MILES
T1S
T2S
Cedarview
Cedarview Cem
Cottonwood
Creek
CANAL
Spring
Flowing Well
Siphon
Gravel Pit
Well
HARRISON
BENCH
PAGE
CRESCENT
ROOSEVELT
LATERAL
BLACKHAWK
Blackhawk
Nephi
Montes
Montes Hollow
Bench
DUCHESNE CO
UINTAH CO
HARDING
PICKUP
AQUEDUCT
ROOSEVELT MUNICIPAL AIRPORT

OPERATOR Bow Valley Petroleum DATE 2-2-93

WELL NAME Lawson 1-21A1

SEC NE SW 21 T 1S R 1W USBM COUNTY Duchesne

43-013-30738
API NUMBER

FEE
TYPE OF LEASE

POSTING CHECK OFF:

[ ] INDEX	[ ] HL	[ ]
[ ] NID	[ ] PI	[ ]
[✓] MAP	[ ]	[ ]

PROCESSING COMMENTS:
No other wells in drilling unit - distance from boundaries OK.

PJF✓

APPROVAL LETTER:

SPACING: [ ] A-3 _____ UNIT [X] c-3-a 131-14 8-11-71 CAUSE NO. & DATE

[ ] c-3-b [ ] c-3-c

SPECIAL LANGUAGE:

Approved as a development oil well.

- [ ] 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 BLANKET
- [x] AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.
- [ ] APPLY SPACING CONSIDERATION
  - [x] ORDER 131-14
  - [ ] UNIT _____
  - [ ] c-3-b
  - [ ] c-3-c
- [x] OUTSTANDING OR OVERDUE REPORTS FOR OTHER WELLS OF THE OPERATOR.
- [x] IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER

February 3, 1983

Bow Valley Petroleum, Inc.
P. O. Drawer 130
Roosevelt, Utah 84066

RE: Well No. Lawson 1-21A1
NESW Sec. 21, T.1S, R.1W USM
Duchesne County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to development oil well is hereby granted in accordance with the Order issued in Cause No. 131-14 dated August 11, 1971.

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

RONALD J. FIRTH - Engineer Office: 533-5771 Home: 571-6068	OR	CLEON B. FEIGHT - Director Office: 533-5771 Home: 466-4455

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (acquifiers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-013-30738.

Sincerely,

Norman C. Stout
Administrative Assistant

NCS/as
Enclosure

STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

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

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

February 10, 1983

MEMO TO FILE:

RJF

RE: Bow Valley Petroleum Inc.
Well No. 1-21A1 Lawson
NESW Sec. 21, T.1S, R.1W USM
Duchesne County, Utah

Mrs. Elder, Roosevelt, Utah, contacted the Division on February 10, 1983 to express her concern about Bow Valley's planned drilling activities in Section 21 due to the proximity of a water well nearby. The location of the water well is North 150' and East 1452' from the SW corner of Section 21 and Bow Valley's proposed drilling location is 1546' from the South line & 1516' from the West line of Section 21. Bow Valley personnel in Roosevelt were contacted by the Division on February 10, 1983 and advised to take extreme caution to protect the water well during drilling operations. The Division plans to inspect the drill site and water well areas as soon as possible.

Bow Valley Petroleum - Phone No. 722-5166

Mrs. Elder - Phone No. 722-3710

Board/Charles R. Henderson, Chairman • John L. Bell • E. Steele McIntyre • Edward T. Beck
Robert R. Norman • Margaret R. Bird • Herm Olsen

an equal opportunity employer • please recycle paper

STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

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

May 4, 1983

MEMO TO FILE:

RE: Bow Valley Petroleum Inc.
Lawson 1-21A1
NESW SEc. 21, T.1S, R.1W
Duchesne County, Utah

Mr. Harvey Elder advised that the referenced well had reduced the flow of his water well (150' FSL, 1452' FWL, Section 21) from approximately 20 GPM to 2 gallons every 1 3/4 minutes. He said Bow Valley had serviced his well, but the flow was still not satisfactory.

Mr. Elder was given the State Engineer's telephone number and was advised to make the contact for an interpretation of State authority in the matter.

The State Engineer (Dee Hansen) advised this office that the circumstance appears to be a civil matter, but that the courts would probably award damages if Mr. Elder could prove damages..

Norm Stout

Board/Charles R. Henderson, Chairman • John L. Bell • E. Steele McIntyre • Edward T. Beck
Robert R. Norman • Margaret R. Bird • Herm Olsen

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May 17, 1983

Governor Matheson;

Bow Valley Exploration has drilled an oil well about 1000' or 1500' behind our house and it has just about made our water well go dry. I called the Oil, Gas & Minerals Division in Salt Lake on 12-6-82 to protest the drilling of this well before the permit was ever issued. I would like to know why a permit was issued when there was a protest against it?

On 3-23-83 when Bow Valley started cementing surface pipe, our well went from 20 gallons per minute to 1 gallon avery minute 45 seconds. I called Doug Howard at Bow Valley right away and he came out to our house right away. He took a sample of our water from the well and asked if we would wait and see if our well came back. We told him yes.

We waited for 30 days or better and then I called to tell him that on 4-27-83 the pump in the well burned out and we had to replace it. He said he would call Denver and see if they would pay for the new pump. He never called back so we bought the new pump and put it in at a cost of around $700.00.

I called again to the Oil, Gas and Minerals Division on 5-2-83 and they called Bow Valley for us again. On 5-3-83 Bow Valley sent Leon Ross out to blow out our well. They blew it dry and then waited to see if it would come back. All it did was make a big mess for us to clean up and the water well runs less now than before they started.

MAY 1983
OFFICE OF
STATE OF UTAH

On 5-4-83 Leon Ross put the pump back in the well and it would not even go down as far as before they took it out, so they cut 5' of pipe off that pump. Then they left and we ended up hooking up our own well and putting the 8'x16' well house back over the well ourselves and at our own expense even though Bow Valley ordered it done.

Now on 5-18-83 I called Bow Valley and they say they will not do anything about our water well. I'd like to know what I can do as I had protested this well before it was drilled and they were issued a permit anyway.

They have more water flowing up around their casing and into their cellar than we have coming out of our water well, and this is not legal.

They are going to drill another oil well about 1 mile from our house and I would like to protest this well too until they make good on the one they are drilling now. They are the ones who caused

us to lose our water and it will be a darn shame if they are allowed to get away with this kind of thing. We are only common people and the oil companies think they can walk all over us cause we don't have the money to fight them. Its the truth but I hope your office will give us some help on this matter right away.

I have also called the Division of Water Rights in Salt Lake on 5-4-83, 5-5-83 and 5-16-83. I talked to Dee Hansen and he said he would have the Vernal Office call us and come by to check on this matter but neither has happened.

I do think the State was wrong to issue this permit for a well that has caused damage and now nobody will accept the responsibility for this damage. This just isn't right to my way of thinking.

Thank You,

Harvey R. Elder
Rt. 1 Box 11-A
Roosevelt, Utah 84066
801-722-3710

P. S. Please give us an answer as soon as possible .

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.: FEE

SUNDRY NOTICES AND REPORTS ON WELLS

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: BOW VALLEY PETROLEUM, INC.

8. FARM OR LEASE NAME: F. LAWSON

3. ADDRESS OF OPERATOR: P.O. DRAWER 130 - ROOSEVELT, UT 84066

9. WELL NO.: ~~1~~-21A1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1516' FWL, 1546' FSL, Sec. 21, T1S R1W, USM Duchesne County, Utah

10. FIELD AND POOL, OR WILDCAT: BLUEBELL

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 21, T1S R1W, USM

14. PERMIT NO.: API#43-013-30738

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5352' GR

12. COUNTY OR PARISH: Duchesne

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) REPORT OF DRILLING WELL			[X]
(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.)*

DATE	DAY DRILLING	DEPTH	OPERATIONS
3-20-83	1	880'	Spud Well & Drill 12-1/4" Hole
3-21-83	2	1,700'	Drilling 12-1/4" Hole
3-22-83	3	2,400'	" " "
3-23-83	4	2,708'	Run 9-5/8" Casing
3-24-83	5	2,708'	Cement 9-5/8" Casing
3-25-83	6	3,162'	Drill Cement & 8-3/4" Hole
3-26-83	7	3,667'	Drilling 8-3/4" Hole
3-27-83	8	3,920'	" " "
3-28-83	9	4,376'	" " "
3-29-83	10	5,021'	" " "
3-30-83	11	5,460'	" " "
3-31-83	12	5,880'	" " "

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

SIGNED Michelle Einerson (Michelle Einerson) TITLE Engineering Technician DATE 4-14-83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

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 [X] OTHER

2. NAME OF OPERATOR: BOW VALLEY PETROLEUM, INC.

3. ADDRESS OF OPERATOR: P. O. DRAWER 130 - ROOSEVELT, UT 84066

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1516' FWL, 1546' FSL, Sec. 21 T1S, R1W, USM

5. LEASE DESIGNATION AND SERIAL NO.: FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: F. LAWSON

9. WELL NO.: 1-21A1

10. FIELD AND POOL, OR WILDCAT:

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 21, T1S, R1W, USM

12. COUNTY OR PARISH: DUCHESNE

13. STATE: UTAH

14. PERMIT NO.: API #43-013-30738

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5352' GR

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) REPORT OF WELL DRILLING			[X]
(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.)*

DRILLING REPORT FOR THE MONTH OF APRIL 1983

DATE	DAY DRILLING	DEPTH	OPERATIONS
4-1-83	13	6,227'	Drilling 8-3/4" Hole
4-2-83	14	6,607'	" " "
4-3-83	15	6,790'	" " "
4-4-83	16	6,970'	" " "
4-5-83	17	7,070'	" " "
4-6-83	18	7,312'	" " "
4-7-83	19	7,536'	" " "
4-8-83	20	7,780'	" " "
4-9-83	21	7,986'	" " "
4-10-83	22	8,148'	" " "
4-11-83	23	8,375'	" " "

(Cont.)

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

SIGNED Michelle Einerson TITLE Engineering Technician DATE 5-3-83

Michelle Einerson

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED
MAY 10 1983
DIV. OF OIL, GAS & MINING

*See Instructions on Reverse Side

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 [X] OTHER

2. NAME OF OPERATOR: BOW VALLEY PETROLEUM, INC.

3. ADDRESS OF OPERATOR: P. O. DRAWER 130 - ROOSEVELT, UT 84066

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1516' FWL, 1546' FSL, Sec. 21 T1S, R1W, USM

5. LEASE DESIGNATION AND SERIAL NO.: FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: F. LAWSON

9. WELL NO.: ~~1~~-21A1

10. FIELD AND POOL, OR WILDCAT:

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 21, T1S, R1W, USM

14. PERMIT NO.: API #43-013-30738

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5352' GR

12. COUNTY OR PARISH: DUCHESNE

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) REPORT OF WELL DRILLING			[X]
(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.)*

DRILLING REPORT FOR THE MONTH OF MAY 1983

DATE	DAY DRILLING	DEPTH	OPERATIONS
5-01-83	43	11,115'	Drilling 8-3/4" Hole
5-02-83	44	11,224'	" " "
5-03-83	45	11,300'	" " "
5-04-83	46	11,300'	Logging
5-05-83	47	11,300'	Running 7" Casing
5-06-83	48	11,300'	Cementing 7" Casing
5-07-83	49	11,300'	Running Temperature Survey
5-08-83	50	11,300'	Cementing 7" Casing (2nd Stage)
5-09-83	51	11,309'	Drilling Cement & 6" Hole
5-10-83	52	11,407'	Drilling 6" Hole
5-11-83	53	11,553'	" " "
5-12-83	54	11,674'	" " "
5-13-83	55 (over)	11,786'	" " "

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

SIGNED Michelle Einerson (Michelle Einerson) TITLE Engineering Technician DATE 6-8-83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED JUN 16 1983 DIV. OF OIL, GAS & MINING

*See Instructions on Reverse Side

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 [X] OTHER

2. NAME OF OPERATOR: BOW VALLEY PETROLEUM, INC.

3. ADDRESS OF OPERATOR: P. O. DRAWER 130 - ROOSEVELT, UT 84066

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1516' FWL, 1546' FSL, Sec. 21 T1S, R1W, USM

5. LEASE DESIGNATION AND SERIAL NO.: FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: F. LAWSON

9. WELL NO.: 1-21A1

10. FIELD AND POOL, OR WILDCAT:

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 21, T1S, R1W, USM

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

14. PERMIT NO.: API #43-013-30738

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5352' GR

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
(Other) REPORT OF WELL DRILLING			[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.)*

DRILLING REPORT FOR THE MONTH OF JUNE 1983

DATE	DAY DRILLING	DEPTH	OPERATION
6-01-83	74	14,026'	Drilling 6" Hole
6-02-83	75	14,155'	" " "
6-03-83	76	14,300'	" " "
6-04-83	77	14,440'	" " "
6-05-83	78	14,507'	Logging
6-06-83	79	14,507'	Logging & Circ. Hole
6-07-83	80	14,507'	Running 5" Liner
6-08-83	81	14,507'	Cementing
6-09-83	82	14,507'	Drilling Cement
6-10-83	83	14,507'	Released Rig @ 6:00 p.m.

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

SIGNED Michelle Emerson TITLE Engineering Technician DATE 7-6-83

Michelle Emerson

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

STATE OF UTAH
NATURAL RESOURCES & ENERGY
Water Rights

23 East Main Street • P.O. Box 879 • Vernal, UT 84073 • 801-789-3714

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dee C. Hansen, State Engineer

Sdr in Bow Valley
LMU 50m 1-21A1
Sec. 21, 1S, 1W

MEMORANDUM

FOR: File
FROM: Robert F. Guy, Eastern Area Engineer
SUBJECT: Application 43424 (43-7458)
Harvey and Carolyn Elder
DATE: August 5, 1983

Mr. Harvey Elder has submitted a complaint that his water well, drilled under Application No. 43424 (43-7458) in 1974 and deepened by Leon Ross Drilling in July of 1977 to a depth of 500 ft. has decreased in production of water because of the activity of oil wells in the area.

Bob Guy, Area Engineer, Eastern Area Office, assigned Ted Baldwin to make an investigation of the complaint. On June 3, 1983, Mr. Baldwin made a field trip to the area to gather information on the complaint.

In talking with Mr. & Mrs. Elder, they related the following information:

1. The first noted drop in production occured with the drilling of an oil well in Section 20, T1S, R1W, USB&M. This well is located about 3200 feet to the northwest of the Elder well.

2. The second, and largest drop in production occured with the drilling of the Bow Valley well, located about 1/4 mile to the North of the Elder well.

3. The Bow Valley well leaked water up around the casing, and they felt this water was being taken from their water flow.

4. Their submersible pump was set at 250 feet. They had tried to put the pump deeper, but it would not go any deeper.

5. This pump was about their third pump. The other pumps had burned out.

6. The 1 H.P. pump would pump about three hours, and then the well would go dry.

AUG 10 1983
DIVISION OF

7. The well had a present artesian flow of 1 gallon in 1 minute and 45 seconds or .0015 c.f.s. At the time proof was made on their application the artesian flow was .0014 c.f.s. and the pumped flow was .015 c.f.s.

Mr. Baldwin visited the site of the Bow Valley well on June 3, 1983 after talking with the Elder's. At this time the oil well construction drilling rig was still working on drilling the oil well. The land around the well site was saturated with water from the wet winter and spring. During the drilling of the well a small amount of water was coming up around the casing. A number of springs are located around the well site. The drilling foreman felt the excess surface water was finding a way to the ground surface around the path made by the well casing.

Bob Guy and Ted Baldwin examined the oil well site at the end of June when the construction of the oil well had been completed. At this time the land around the well had dried out. No water was observed around the casing nor were there any drains to drain away water from around the well casing.

The file was examined and it appears that no well drillers log was filed on the original well. An attempt was made to locate the driller. However, he is no longer drilling water wells and has moved out of the state. The log submitted by the driller who deepened the well indicates that the original well was 270 feet deep. There is nothing on the log to indicate how the original well was constructed. Since the well was deepened prior to the drilling of the oil well it appears that Mr. Elder was having problems then. The log did indicate that after deepening the well flowed about 10 gallons per minute.

Mr. Doug Howard of Bow Valley was consulted as to the construction of the oil well and he indicated the following: that surface pipe was set to 64 feet with 20 inch pipe and cemented to the surface, then a hole was drilled to 2706 feet set with 9 5/8 inch casing and cemented to the surface and then the well was completed to a depth of 11,368 feet set with 7-inch casing and cemented to the surface.

An Engineer from one of the oil well cementing companies was consulted as to the possibility of the cement penetrating the formation any distance great enough to close off the aquifer the Elder well was producing form. He indicated that the cement would only penetrate a very short distance and could in no way interfere with the Elder well.

After Mr. Elder complained, as a good will gesture, Bow Valley hired a well driller to clean out the well and blew out a lot of sand. Supposedly a flow of 7 gallons per minute was produced but there is no well driller's log to substantiate this.

From the information available it appears the oil well was properly constructed and is not interfering with the Elder well.

NOTE: The file is missing two applications to clean, deepen and repair a water well and also two well driller's logs.

cc: Dee C. Hansen

SCOTT M. MATHESON
GOVERNOR

STATE OF UTAH

OFFICE OF THE GOVERNOR
SALT LAKE CITY
84114

August 9, 1983

Mr. Harvey R. Elder
Rt. 1 Box 11-A
Roosevelt, Utah 84066

Dear Mr. Elder:

Thank you for your letter dated May 17, 1983 relative to your concerns over the conditions in your water well located in Duchesne County, Utah. Please accept my apologies for this late response; many agencies have been involved in the evaluation of your problem.

The Department of Natural Resources has examined the circumstances surrounding the drilling of the Lawson #1-21A1 well located in Section 21, Township 1 South, Range 1 West, Duchesne County, Utah, and finds no apparent correlation to your water well.

As you know we now have one of the most extensive oil and gas conservation laws in the western United States, thanks to Senate Bill 157 of the 1983 legislature. I stand ready to use this legislation to the maximum extent and have been assured by the Division of Oil, Gas and Mining Director, Dr. Jim Shirazi that he will personally be involved in any allegations of hydrologic damage to our most precious natural resource, water. Should you suspect further damage from this oil well or any future wells please inform Dr. Shirazi so that he can take further action.

Sincerely,

GOVERNOR

SMM/tar

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dr. G. A. (Jim) Shirazi, Division Director

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

MEMORANDUM
****

TO: Alton Frazier, Public Affairs

FROM: Ron Daniels, Deputy Director, Division of Oil, Gas & Mining Ron

SUBJECT: Harvey Elder's Water Well

DATE: August 9, 1983

In response to Mr. Harvey's letter concerning his water well and Bow Valley Petroleum's drilling of the Lawson #1-21A1 well in Section 21, T 1 S, R 1 W, Duchesne County, the Division offers the following.

Bow Valley's application to drill was filed with the Division on February 1, 1983, and approved February 3, 1983. Mrs. Elder contacted Ron Firth, the Division's Chief Petroleum Engineer on February 10, 1983, and expressed her concern about Bow Valley's planned drilling activities. Ron subsequently called Bow Valley and advised them to take special precautions during drilling to avoid effecting Elder's water well (see enclosed memo). The Division had received nothing in writing from the Elders protesting the Bow Valley well prior to receiving the letter addressed to Governor Matheson dated May 17, 1983. Bow Valley having a viable lease and conforming with the state regulations had legal rights to drill the subject well unless they were curtailed through the civil court system.

It seems Bow Valley followed current acceptable procedures during the early stages of drilling this well to adequetly protect the shallow water aquifers. To prove any definite correlation between the reduction in flow of the Elder well and the drilling of the Bow Valley well would take some very technical study and testing. If this correlation could be made the courts would surely award Mr. Elder for damages suffered. According to Ted Baldwin of the Division of Water Rights in Vernal, the Elders had been experiencing difficulties with this water well prior to Bow Valley spudding the Lawson well and had burned up several pumps.

In summary, the Division finds Bow Valley Petroleum has fulfilled all requirements of state regulations and the Oil and Gas Conservation Act in drilling the Lawson 1-21A1 well and has no legal right to holdup the drilling of it or any future wells. The Division will however, require that all legal and reasonable engineering precautions be taken in drilling in these sensitive areas.

Enclosures

File Bear Valley Lawsuit 1-21-84

RESPONSE DUE BY ASAP-Route First to Alton Frazier.

Letter to: Mr Harvey Elder Letter Dated 8/9/83

Subject: Water Well Contamination

Responding/Originating Div. OG+M Date sent to Dept. 8/10/83

Answer Requested by Governor's Office ✓

Letter Originated by Division ✓

Drafted by: Ron Daniels Date 8/9/83

Reviewed by: Dr. Shirazi Date 8/10/83

Division Approval by: Dr. Shirazi Date 8/10/83

Date Received by Department _____

Department Review by: _____ Date _____

Department Approval by: _____ Date _____

GOVERNOR'S OFFICE CHECKLIST

_____ Return signed copy to originating division through Department.

_____ Return signed original to originating division through Department for mailing.

_____ Mail copies.

Comments _____

DATE MAILED _____

FILE IN TRIPLICATE
FORM OGC-8-X

56 64 03

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1588 West North Temple
Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number F. LAWSON #1-21A1

Operator BOW VALLEY PETROLEUM, INC. *Address* P. O. DRAWER 130, ROOSEVELT, UT 84066

Contractor APOLLO DRILLING CO *Address* 1625 BROADWAY SUITE 2030 DENVER CO 80202

Location NE ¼ SW ¼ *Sec.* 21 *T.* 1S *R.* 1W *County* DUCHESNE

Water Sands

	Depth		Volume	Quality
	From	To	Flow Rate or Head	Fresh or Salty
1.	NONE			
2.				
3.				
4.				
5.				

(Continue of reverse side if necessary)

Formation Tops

Remarks

NOTE: (a) *Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.*

(b) *If a water analysis has been made of the above reported zone, please forward a copy along with this form.*

Form OGC-3

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

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

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: BOW VALLEY PETROLEUM, INC.

3. ADDRESS OF OPERATOR: P. O. DRAWER 130, ROOSEVELT, UT 84066

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface: 1516' FWL, 1546 FSL, NE¼ SW¼, Sec. 21 T1S, R1W, USB & M DUCHESNE COUNTY, UT
At top prod. interval reported below: Same
At total depth: Same

5. LEASE DESIGNATION AND SERIAL NO.: FEE
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT AGREEMENT NAME:
8. FARM OR LEASE NAME: F. LAWSON
9. WELL NO.: 1-21A1
10. FIELD AND POOL, OR WILDCAT: WILDCAT -WASATCH
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 21, T1S, R1W, U S B & M
12. COUNTY OR PARISH: DUCHESNE
13. STATE: UTAH
14. PERMIT NO. API# 43-013-30738 DATE ISSUED: Feb.3,1983

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
3-20-83	6-5-83	6-26-83	5352' GR	

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
14,507'	14,500'		→	All	None

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: MD 12,052' - 14,325' Wasatch

25. WAS DIRECTIONAL SURVEY MADE: no

26. TYPE ELECTRIC AND OTHER LOGS RUN: Caliper - GR - NGT - Dil - FDC - CNL - NGS - FPL

27. WAS WELL CORED: no

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20"	52.73#	64'	30"	12 bags grout	
9-5/8"	40#	2706'	12¼"	1500 SX halcolite,200 SX "H"	
7"	26# & 32#	11,368'	8-3/4"	400 SX "H", 210 SX 50/50 Poz. & 225 SX "H"	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
5"	11,052'	14,500'	315 sx 50/50 poz	

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	12,000'	12,000'

31. PERFORATION RECORD (Interval, size and number): See Attachment

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
12,052'-14,325'	30,000 gal 15% HCl
12,119'-14,007'	30,000 gal 15% jelled HCl

33.* PRODUCTION

DATE FIRST PRODUCTION: June 26, 1983
PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump): Flowing
WELL STATUS (Producing or shut-in): Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
6-27-83	24	12	→	100.0	117	25	1,168

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
475	0	→				39.8

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): Sold to Darenco
TEST WITNESSED BY: Chuck Gardner

35. LIST OF ATTACHMENTS: Perforation detail, Notice of Water Encountered During Drilling

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

SIGNED D.G. Howard TITLE District Superintendent DATE 9-1-83

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

Bow Valley Petroleum Inc.

F. LAWSON #1-21A1

PERFORATION DETAIL

All Perforations w/3-1/8" Gun and 3 JSPF

DEPTH	FEET	SHOTS	DEPTH	FEET	SHOTS	DEPTH	FEET	SHOTS
14,325	1	3	13,334	1	3	12,609	1	3
14,323	1	3	13,326	1	3	12,586	1	3
14,274-73	2	6	13,318-17	2	6	12,583	1	3
14,176-75	2	6	13,298-97	2	6	12,569	1	3
14,146-45	2	6	13,237	1	3	12,567	1	3
14,116-15	2	6	13,223	1	3	12,565	1	3
14,076	1	3	13,220	1	3	12,563	1	3
14,074	1	3	13,218	1	3	12,561	1	3
14,072	1	3	13,214	1	3	12,548	1	3
14,055	1	3	13,199	1	3	12,544	1	3
14,053	1	3	13,190-89	2	6	12,542	1	3
14,036	1	3	13,171-70	2	6	12,540	1	3
13,922	1	3	13,138	1	3	12,536	1	3
13,918	1	3	13,093	1	3	12,532	1	3
13,906	1	3	13,050-49	2	6	12,528	1	3
13,851	1	3	12,951	1	3	12,513-12	2	6
13,849	1	3	12,949	1	3	12,498-97	2	6
13,806	1	3	12,930	1	3	12,466-64	3	9
13,777-76	2	6	12,914	1	3	12,443	1	3
13,686	1	3	12,879	1	3	12,410	1	3
13,661	1	3	12,801-00	2	6	12,399	1	3
13,649	1	3	12,788	1	3	12,397	1	3
13,644-43	2	6	12,742	1	3	12,364	1	3
13,543	1	3	12,740	1	3	12,325-24	2	6
13,435-34	2	6	12,738	1	3	12,297	1	3
13,418	1	3	12,736	1	3	12,262	1	3
13,416	1	3	12,734	1	3	12,260	1	3
13,414	1	3	12,690	1	3	12,258	1	3
13,412	1	3	12,677	1	3	12,256	1	3
13,410	1	3	12,676	1	3	12,219-17	3	9
13,405	1	3	12,637	1	3	12,158-57	2	6
13,378-76	3	9	12,628	1	3	12,152	1	3
13,366-65	2	6	12,626	1	3	12,139-38	2	6
13,336	1	3	12,624	1	3	12,128	1	3

(Cont.)

F. LAWSON #1-21A1

PERFORATION DETAIL (Cont.)

All Perforations w/3-1/8" Gun and 3 JSPF

DEPTH	FEET	SHOTS
12,126-20	6	18
12,118	1	3
12,093-90	4	12
12,088	1	3
12,070	1	3
12,052	1	3
Totals	140	420

ADDITIONAL PERFORATIONS

All Shots w/2-1/8" Hyperdome Tubing Gun and 2 JSPF

DEPTH	FEET	SHOTS
14,007-06	2	4
13,998	1	2
13,990	1	2
13,985-83	3	6
13,970-69	2	4
13,964	1	2
13,956	1	2
13,946-45	2	4
13,907	1	2
13,884-82	3	6
13,321-20	2	4
13,248-47	2	4
13,238-37	2	4
13,222-21	2	4
13,171-70	2	4
12,772-70	3	6
12,683-81	3	6
12,568-67	2	4
12,564-63	2	4
12,547-46	2	4
12,531-30	2	4
12,514-13	2	4
12,463-62	2	4
12,398-97	2	4
12,218-20	3	6
12,190	1	2
12,188	1	2
12,186	1	2
12,158-57	2	4
12,152-51	2	4
12,125-24	2	4
12,119	1	2
Totals	60	120

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.)

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

2. NAME OF OPERATOR: Bow Valley Petroleum, Inc.

3. ADDRESS OF OPERATOR: P.O. Drawer 130, Roosevelt, Utah 84066

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1546' FSL, 1516' FWL, NE¼ SW¼

5. LEASE DESIGNATION AND SERIAL NO.: Fee

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

7. UNIT AGREEMENT NAME: N/A

8. FARM OR LEASE NAME: F. Lawson

9. WELL NO.: #1-21A1

10. FIELD AND POOL, OR WILDCAT: Wildcat-Wasatch

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 21, T1S, R1W, USB &M

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

14. PERMIT NO.: 43-013-30738

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5352' GR

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	[X]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			[ ]
(Other)			[ ]				

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)* On December 17, 1983, Bow Valley perforated additional Wasatch formation intervals w/3 1/8" od csg gun, 3JSPF, phased 120 , using premium charges as follows:

11,922	11,677-675
11,920-19	11,651-647
11,902,900	11,624
11,888-86	11,575-73
11,742	11,566-63
11,740	11,503
11,738	11,459-57
11,736	11,443-41
11,700-698	11,392-91
11,696	11,385-84
11,693	11,374
11,690-687	

RECEIVED
JAN 25 1984
DIVISION OF
OIL, GAS & MINING

*Intervals were acidized w/15,000 gallons 15% HCl on 1-4-84

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

SIGNED Michelle Einerson TITLE Engineering Technician DATE January 19, 1984

Michelle Einerson

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

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
MAY 17 1984
DIVISION OF OIL GAS & MINING

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

2. NAME OF OPERATOR: Bow Valley Petroleum, Inc.

3. ADDRESS OF OPERATOR: P.O. Drawer 130

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1516' FWL, 1546' FSL, NE¼ SW¼

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: F. Lawson

9. WELL NO.: ~~1~~-21A1

10. FIELD AND POOL, OR WILDCAT: Bluebell-Wasatch&GR

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec.21, T1S, R1W, &USB&M

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

14. PERMIT NO.: 43-013-30738

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5352' GR

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF		FULL OR ALTER CASING		WATER SHUT-OFF		REPAIRING WELL	
FRACTURE TREAT		MULTIPLE COMPLETE		FRACTURE TREATMENT		ALTERING CASING	
SHOOT OR ACIDIZE	X	ABANDON*		SHOOTING OR ACIDIZING	X	ABANDONMENT*	
REPAIR WELL		CHANGE PLANS		(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

*See attached perforation detail

On 4-24-84 intervals were acidized with 15,000 gallons 15% HCl acid.

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

SIGNED Michelle M Einerson TITLE Engineering Technician DATE 5-15-84

Michelle Einerson

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

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: Bow Valley Petroleum, Inc.

3. ADDRESS OF OPERATOR: P.O. Drawer 130, Roosevelt, Utah 84066

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1516' FWL, 1546' FSL, NE¼ SW¼

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Lawson

9. WELL NO.: 1-21A1

10. FIELD AND POOL, OR WILDCAT: Bluebell

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec.21, T1S, R1W

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

14. PERMIT NO.: 43-013-30738

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5352' GR

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	[X]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

On 12-20-84, Bow Valley perforated additional Green River formation intervals with 4" casing guns, 4 SPF as follows:

9209'	9217'
9210'	9218'
9212'	9219'
9213'	9220'
9214'	9221'
9215'	9222'
9216'	9223'

Intervals were acidized with 4000 gallons 15% HCl acid.

Average production before workover: 20 BOPD, 25 MCFD, 0 BWPD.

Average production after workover: 25 BOPD, 27 MCFD, 18 BWPD.

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

SIGNED Michelle M. Einerson TITLE Eng. Tech. DATE 1-7-85

MICHELLE M. EINERSON

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Lawson 1-21A1

On April 21, 1984, the following Green River Formation intervals were perforated with 4" casing guns,
3 spf
phased 120 , using premium charges:

10831	10053
10830	10028
10825	10024
10778	10019
10777	10013
10773	9883
10768	9879
10742	9671
10741	9667
10729	9656
10725	9650
10723	9645
10721	9619
10696	9616
10694	9612
10678	9609
10674	9603
10656	9541
10655	9535
10586	9529
10558	9474
10554	9472
10550	9471
10549	9453
10543	9452
10542	9414
10498	9412
10488	9387
10473	9377
10472	9368
10419	9366
10418	9362
10385	9354
10384	9353
10373	
10372	
10363	
10359	
10343	
10342	
10260	
10257	
10192	
10191	
10185	
10135	
10125	

Totals 81 Intervals
81 Feet
243 Shots

Average production before work: 25 BOPD, 56 MCFD, 2 BWPD
Average production after work: 86 BOPD, 110 MCFD, 0 BWPD

31050

STATE OF UTAH
DIVISION OF OIL, GAS & MINING
DRILLING LOCATION ASSESSMENT

MICROFICHE

OPERATOR Badger Oil Corp. WELL NAME Badger-Lawson 2-21A1

LOCATION: COUNTY Duchesne SECTION 21 T 1S R 1W

QTR/QTR SENW 1325' FNL & 1525' FWL

SURFACE OWNERSHIP Fee MINERAL LEASE # Fee

ASSESSMENT PARTICIPANTS: DATE 03 / 25 / 86

Cary Smith	ADS
Bob Morlan	Badger

I. REGIONAL SETTING/TOPOGRAPHY

II. LAND USE

A. Current Surface Use:

Range land

B. Proposed Surface Disturbance:

C. Affected Floodplains and/or Wetlands:

Marshy area and creek to NW of New site

III. ENVIRONMENTAL PARAMETERS

A. Geology:

1. Surface Formation -

2. Stability -

ok, slumping to North but site is ok

B. Soils:

1. Soil Characteristics -

silty sand.

2. Erosion/Sedimentation -

C. Water Resources:

MICROFICHE

D. Flora/Fauna:

sage bush, bitter brush & grasses
mush grass to North near stream

E. Cultural Resources/Archeology:

NA

F. Adequacy of Restoration Plans:

IV. RESERVE PIT

A. Characteristics:

large pit to south of new location

B. Lining:

min 2lb/sq ft commercial bents

V. OTHER OBSERVATIONS

MICROFICHE

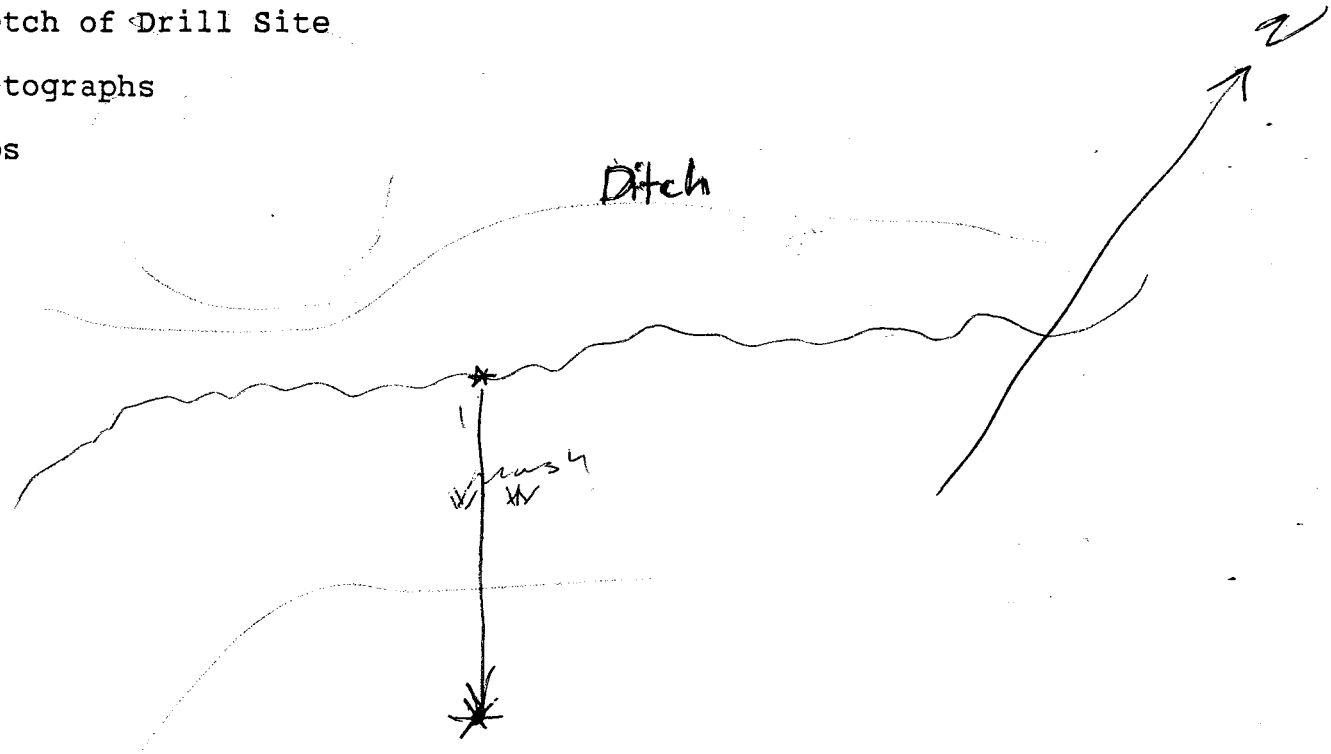
VI. STIPULATIONS FOR APD APPROVAL:

VII. ATTACHMENTS

A. Sketch of Drill Site

B. Photographs

C. Maps



MICROFICHE

STATE OF UTAH
DIVISION OF OIL, GAS & MINING
DRILLING LOCATION ASSESSMENT

MICROFICHE

OPERATOR Badger Oil Corp. WELL NAME Badger-Lawson 2-21A1

LOCATION: COUNTY Duchesne SECTION 21 T 1S R 1W

QTR/QTR SE/NW 1325' F N L & 1525' F W L

SURFACE OWNERSHIP Fee MINERAL LEASE # Fee

ASSESSMENT PARTICIPANTS: DATE 03 / 25 / 86

Cary Smith	ADS, Inc.
Bob Marlan	Badger Oil Corp.
Ed Deputy	DOGM, Vernal
Jim Thompson	DOGM, S.L.C.
William Moore	DOGM, S.L.C.

I. REGIONAL SETTING/TOPOGRAPHY

Uintah Basin, N-S. plateaus extending south into the basin from the Uintah Mtn's to the North.

II. LAND USE

A. Current Surface Use:

open range

B. Proposed Surface Disturbance:

(location moved ~200' SE to get out of creek)
access from south via 1-21A1 well site along ridge.
pit to south

C. Affected Floodplains and/or Wetlands:

Stock pond, irrigation ditches, Natural spring and marshy area to North of 'New' location (avoided by moving old location to 'New')

III. ENVIRONMENTAL PARAMETERS

A. Geology:

1. Surface Formation -

Uintah Fm, bouldery silty sands (Unified Soils Class SM) highly permeable.

2. Stability -

unstable on extreemly steep slopes when water saturates as exhibited by road slump to east ~ 1/4 mi.

B. Soils:

1. Soil Characteristics -

New location consists of shallow soils of the Formation character.

2. Erosion/Sedimentation -

Erosion potential is used as pit lining

C. Water Resources:

as stated in II C above, new location avoids problems.

MICROFICHE

D. Flora/Fauna:

sage and bitter brush, grasses,

E. Cultural Resources/Archeology:

NA

F. Adequacy of Restoration Plans:

No plan submitted

IV. RESERVE PIT

A. Characteristics:

Reserve pit will be located to the south and constructed into Uintah Fm.

B. Lining:

high permeable Uintah Fm will require lining, Group SM unified soils class Relative value of 4 for embankments, 10 for erosion resistance (poor), and 17 for earth lining (poor).

V. OTHER OBSERVATIONS

MICROFICHE

VI. STIPULATIONS FOR APD APPROVAL:

2 lbs/sq ft commercial bentonite, which may be premixed or worked in to the surface of the pit walls and bottom.

Notification 48 hrs prior to construction of the drill site

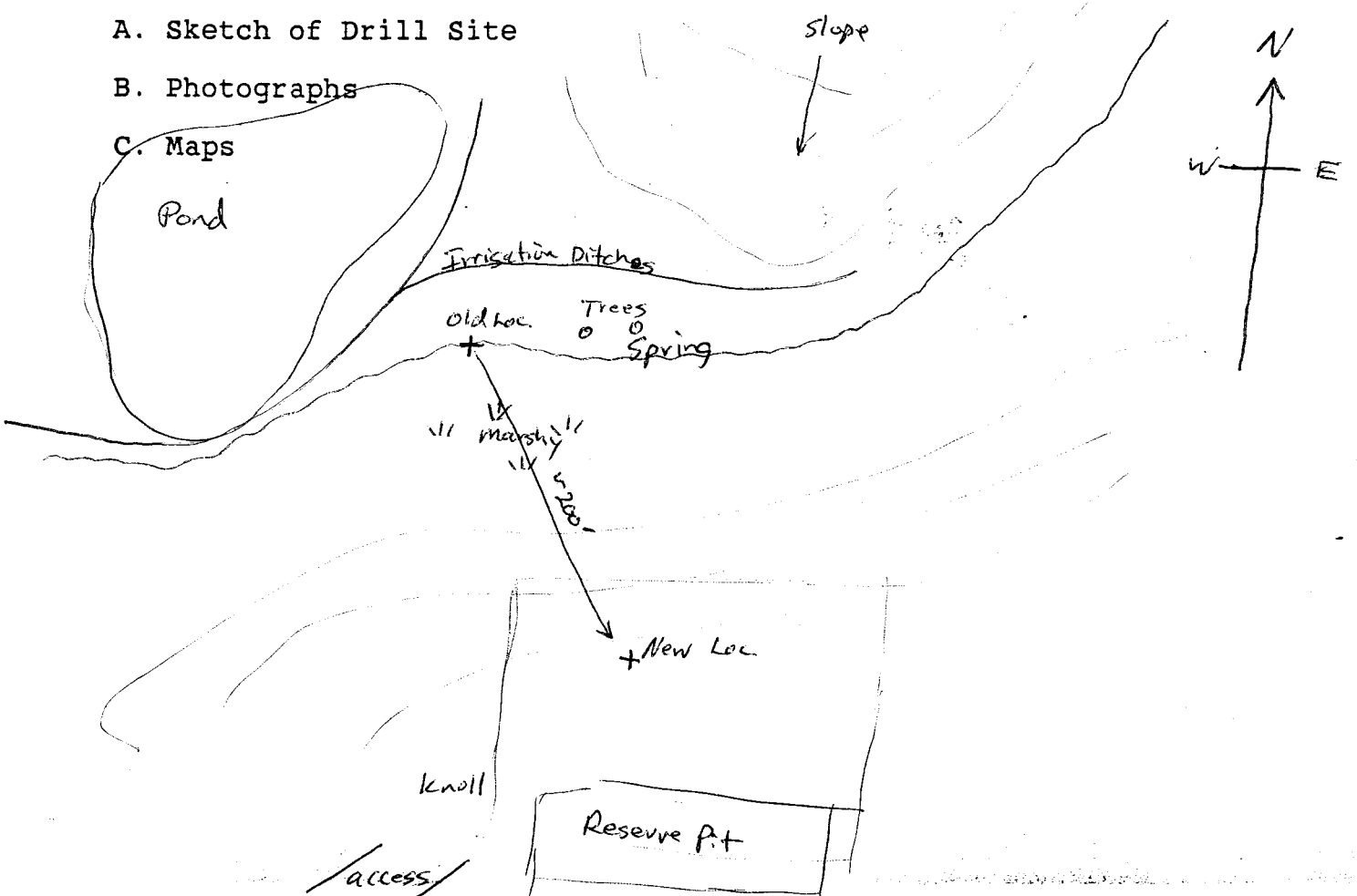
County health reg's

VII. ATTACHMENTS

A. Sketch of Drill Site

B. Photographs

C. Maps



MICROFICHE

UTAH
NATURAL RESOURCES
Oil, Gas & Mining

355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Ut
84180-1203. ● (801-538-5340)

DOGM 56-64-2
an equal opportunity employe

MONTHLY OIL AND GAS PRODUCTION REPORT

Operator name and address:

● BOW VALLEY PETROLEUM, INC.
1675 BROADWAY, SUITE 2100
DENVER CO 80202
ATTN: JUDY WILSON

Utah Account No. N0130

Report Period (Month/Year) 3 / 87

Amended Report ☐

Well Name API Number Entity Location	Producing Zone	Days Oper	Production Volume Oil (BBL)	Gas (MSCF)	Water (BBL)
E. FISHER #2-26A4 4301331119 00890 01S 04W 26	WSTC				
UTE TRIBAL 1-29A1E 4304730937 00895 01S 01E 29	WSTC				
BOLTON 2-29A1E 4304731112 00900 01S 01E 29	WSTC				
WISSE 1-28Z1 4301330609 00905 01N 01W 28	WSTC				
POWELL 1-21B1 4301330621 00910 02S 01W 21	WSTC				
UTE TRIBAL 2-22A1E 4304731265 00915 01S 01E 22	WSTC				
BOLTON 1-12A1 4304731295 00920 01S 01W 12	WSTC				
H.MARTIN 1-21Z1 4301330707 00925 01N 01W 21	WSTC				
FOWLES 1-26A1 4304731296 00930 01S 01W 26	WSTC				
LAWSON 1-21A1 4301330738 00935 01S 01W 21	WSTC				
R. HOUSTON 1-22Z1 4301330884 00936 01N 01W 22	WSTC				
BIRCHELL 1-27A1 4301330758 00940 01S 01W 27	WSTC				
WESLEY BASTIAN FEE #1 4301310496 00942 01S 01W 8	GRRV				
		TOTAL			

Comments (attach separate sheet if necessary) _____

I have reviewed this report and certify the information to be accurate and complete. Date _____

Authorized signature _____ Telephone _____

PLEASE COMPLETE FORMS IN BLACK INK

6705-108
Rev. 6-84

042901

STATE OF UTAH
Business Regulation

AMENDED
CERTIFICATE OF AUTHORITY
OF

GW PETROLEUM INC.

The Department of Business Regulation, Division of Corporations and Commercial Code, pursuant to the Utah Business Corporation Act, hereby issues an Amended Certificate of Authority to GW PETROLEUM INC., formerly BOW VALLEY PETROLEUM INC.

to transact business in the State of Utah.

File No. #79959

RECEIVED
APR 27 1987
DIVISION OF
OIL, GAS & MINING

DIVISION OF CORPORATIONS AND COMMERCIAL CODE
STATE OF UTAH

Dated this 23rd day of February A.D. 19 87

Director, Division of Corporations and Commercial Code

6705-36
Rev. 6-84

Filing Fee: $25.00

File Duplicate Originals

1987 FEB 23 PM 2:28

23rd Feb 87

M-C

35.00

APPLICATION FOR AMENDED CERTIFICATE OF AUTHORITY OF

BOW VALLEY PETROLEUM INC.
(corporate name)

To the Division of Corporations and Commercial Code
State of Utah

Pursuant to the provisions of Section 16-10-14 of the Utah Business Corporation Act, the undersigned corporation hereby applies for an Amended Certificate of Authority to transact business Utah, and for that purpose submits the following statement:

FIRST: A Certificate of Authority was issued to the corporation by your office on December 19, 19 78, authorizing it to transact business in your State.

SECOND: The corporate name of the corporation has been changed to GW PETROLEUM INC.

THIRD: The corporation will use the changed name hereafter in Utah.

FOURTH: It desires to pursue in the transaction of businesss in Utah other or additional purposes than those set forth in its prior Application for a Certificate of Authority, as follows:

No change

Dated February 3, 19 87.

Notes: 1. If the corporate name has not been changed, insert "No Change".

2. If no other or additional purposes are proposed, insert "NO Change".

Under penalties of perjury, we declare that this application for Amended Certificate of Authority has been exmined by us and is, to the best of our knowledge and belief, true, correct and complete.

Send completed forms to:
STATE OF UTAH
Department of Business Regulation
Div. of Corporations & Commercial Code
160 E. 300 South / P.O. Box 5801
Salt Lake City, Utah 84110 - 5801

RECEIVED
APR 27 1987
DIVISION OF
OIL, GAS & MINING

G W PETROLEUM INC.
(exact corporate name)

By _____
~~President~~ or Vice President

By _____
~~Secretary or~~ Assistant Secretary

1-11-89

This plugging procedure was prepared by Frank Matthews on 1-11-89. After discussing this with Jim Hooks via telephone, the procedure was modified. Mr. Hooks will submit revised procedure for approval.

JRB

NATIONAL 42-381 50 SHEETS 5 SQUARE 42-382 100 SHEETS 5 SQUARE 42-389 200 SHEETS 5 SQUARE Made in U.S.A.

To Jim T

Date 1/11/89 Time 10:30

WHILE YOU WERE OUT

M Jim Hooks

of

Phone 789- 4075

Area Code Number Extension

TELEPHONED	✓	PLEASE CALL	✓
CALLED TO SEE YOU		WILL CALL AGAIN	
WANTS TO SEE YOU		URGENT	
RETURNED YOUR CALL			

Message

Plugging instructions

A.

Operator

AMPAD EFFICIENCY®

23-000 50 SHT. PAD
23-001 250 SHT. DISPENSER BOX

G.W. Petroleum Inc.
Lawson 1-21A1
Sec. 21, T1S, R1W
Duchesne County
43-013-30738

— Plugging Instructions —

1. Set CIBP @ approx ±50' above liner top. + cap w/ 10 sk cement.

2. Fill hole w/ 9.0 ppg fresh water mud.

3. Set CIBP @ approx ±50' above the top of the Green River perforations + cap w/ 10 sk cmt.

4. Set 50 sks balanced plug w/ top @ 5100' (Camp Water zone)

5. Set balanced plug 50' above + 50' below 9 5/8" csg seat @ 2708.

6. Cut off below ground level + fill 7" w/ 10 sk of cement. Fill all annuli at the surface w/ cement.

7. Install dry hole marker showing the following.
   (1) well number
   (2) location
   (3) name of lease

The marker will be not less than 4" in dia. + Not less than 10' in length of which 4' shall be below ground level.

DOGM Form 5
May 5, 1987

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

BLM COPY

RECEIVED
OCT 26 1989
DIVISION OF
OIL, GAS & 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: Flying J, Inc.

3. ADDRESS OF OPERATOR: P.O. Box 175 North Salt Lake, Utah 84054

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

5. LEASE DESIGNATION AND SERIAL NO.:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: VR49I84671C

8. FARM OR LEASE NAME: Lawson

9. WELL NO.: 1-21A1

10. FIELD AND POOL, OR WILDCAT:

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: T. 1s R. 1W Sec. 21

14. API NUMBER: 43-013-30738

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

12. COUNTY OR PARISH: Duchesne

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

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

The above well was taken over by Flying J, Inc. from GW Petroleum, effective March 15, 1989.

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

SIGNED Dan Kenna TITLE Technical Assistant DATE October 25, 1989

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

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.)

NOV 03 1989
DIVISION OF OIL, GAS & MINING

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

2. NAME OF OPERATOR: GW Petroleum Inc.

3. ADDRESS OF OPERATOR: 1111 Bagby, Suite 1700 Houston, Texas 77002

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

5. LEASE DESIGNATION AND SERIAL NO.:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: See Attached

9. WELL NO.: See Attached

10. FIELD AND POOL, OR WILDCAT:

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

14. PERMIT NO.:

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

12. COUNTY OR PARISH: Duchesne & 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			[ ]
(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 April 1, 1989, Flying J Corporation took over operation of the wells listed on the following attachment.

OIL AND GAS	
DPN	RJF
JRB	GLH
2. DTS	SLS
5.	
1-TAS	
3. MICROFILM	
4. FILE	

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

SIGNED Debby Sanders TITLE Engineering Aide DATE 10/27/89

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

WELL NAME	API NUMBER	LOCATION
UTE TRIBAL #2	4301330020 00690	1S 1W 8
GOSE GOVT #1	4304720171 00695	6S 21E 19
GOST GOVT 2-18	4304720062 00697	6S 21E 18
K. SHISLER #1	4301330041 00700	1S 1W 9
UTE TRIBAL 2-35B	4301330106 00705	1N 2W 35
E. YUMP #1	4301330167 00710	1N 1W 31
UTE TRIBAL 1-26B	4301330168 00715	1N 2W 26
FARNSWORTH #1	4301~~330109~~ 30279 00730	1S 4W 18 — Fee
SHINER #1-14A4	4301330258 00735	1S 4W 14 — Fee
BASTIAN 1-2A1	4304731373 00736	1S 1W 2 — Fee
CARSON 2-36A1	4304731407 00737	1S 1W 36
V. MILES #1	4301330275 00740	1S 4W 20 — Fee
A. RUST #2	4301330290 00745	1S 4W 22 — Fee
REARY 1-X17A3	4301330326 00750	1S 3W 17 — Fee
UTE TRIBAL 1-32Z1	4301330324 00755	1N 1W 32
GOVT 4-14	4304730155 00760	6S 20E 14
SADIE BLANK 1-33Z1	4301330355 00765	1N 1W 33 — Fee
UTE TRIBAL 1-34B	4301310494 00775	1N 2W 34
UTE TRIBAL 1-16	4304730231 00780	1S 1E 16
PAPADOPULOS 1-34A1E	4304730241 00785	1S 1E 34 — Fee
C. J. HACKFORD 1-23	4304730279 00790	1S 1E 23 — Fee
UTE TRIBAL 1-35A1E	4304730286 00795	1S 1E 35
UTE TRIBAL 1-~~17~~ 27A1E (DTS)	4304730421 00800	1S 1E 27
DAVIS 1-33	4304730384 00805	1S 1E 33 — Fee
UTE TRIBAL 1-22A1E	4304730429 00810	1S 1E 22
LARSEN 1-25A1	4304730552 00815	1S 1W 25 — Fee
DRY GULCH 1-36A1	4304730569 00820	1S 1W 36 — Fee
NELSON 1-31A1E	4304730671 00830	1S 1E 31 — Fee
UTE TRIBAL 1-32A1E	4304730676 00835	1S 1E 32
ROSEMARY LLOYD 1-24A1E	4304730707 00840	1S 1E 24 — Fee
H. D. LANDY 1-30A1E	4304730790 00845	1S 1E 30 — Fee
UTE TRIBAL 1-15A1E	4304730820 00850	1S 1E 15
WALKER 1-14A1E	4304730~~820~~ 05 (DTS) 00855	1S 1E 14 — Fee
UTE TRIBAL 1-17A1E	4304730829 00860	1S 1E 17
UTE TRIBAL 1-25A1E	4304730830 00865	1S 1E 25
FAUSETT 1-26A1E	4304730821 00870	1S 1E 26 — Fee
HOUSTON 1-34Z1	4301330566 00885	1N 1W 34 — Fee
E. FISHER #2-26A4	4301331119 00890	1S 4W 26 — Fee
UTE TRIBAL 1-29A1E	4304730937 00895	1S 1E 29
BOLTON 2-29A1E	4304731112 00900	1S 1E 29 — Fee
WISSE 1-28Z1	4301330609 00905	1N 1W 28 — Fee
POWELL 1-21B1	4301330621 00910	2S 1W 21 — Fee
UTE TRIBAL 2-22A1E	4304731265 00915	1S 1E 22 — Fee
L. BOLTON 1-12A1	4304731295 00920	1S 1W 12 — Fee
H. MARTIN 1-21Z1	4301330707 00925	1N 1W 21 — Fee
FOWLES 1-26A1	4304731296 00930	1S 1W 26 — Fee
LAWSON 1-21A1	4301330738 00935	1S 1W 21 — Fee
R. HOUSTON 1-22Z1	4301330884 00936	1N 1W 22 — Fee
BIRCHELL 1-27A1	4301330758 00940	1S 1W 27 — Fee
WESLEY BASTIAN FEE #1	4301310496 00942	1S 1W 8 — Fee
KNIGHT #1	4301330184 01090	2S 3W 28 — Fee
MYRIN RANCH #1	4301330176 01091	2S 3W 20 — Fee
DUSTIN #1	4301330122 01092	2S 3W 22 — Fee
HANSEN #1	4301330161 01093	2S 3W 23 — Fee
PRESCOTT 1-35Z1	4304731173 01425	1N 1W 35 — Fee

WELL NAME	API NUMBER	LOCATION
KW CARRELL #1	4301330158 02307	2S 3W 27 — Fee
D. R. LONG 2-19A1E	4304731470 09505	1S 1E 19 — Fee
OBERHANSLY 2-31Z1	4301330970 09725	1N 1W 31 — Fee
O MOON 2-26Z1	4304731480 10135	1N 1W 26 — Fee
PAPADOPULOS 2-34A1E	4304730683 10610	1S 1E 34 — Fee
JESSEN 2-14A4	4301331160 10611	1S 4W 14 — Fee
UTE TRIBAL #2-34Z2	4301331167 10668	1N 2W 34
BASTIAN #3-8A1	4301331181 10758	1S 1W 8 — Fee
LILA D. #2-25A1	4304731797 10790	1S 1W 25 — Fee

no documentation from Flying J on operator change

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DIVISION OF
OIL, GAS & MINING

WELL NAME	API NUMBER		LOCATION
UTE TRIBAL #2	4301330020	00690	1S 1W 8
GOSE GOVT #1	4304720171	00695	6S 21E 19
GOST GOVT 2-18	4304720062	00697	6S 21E 18
K. SHISLER #1	4301330041	00700	1S 1W 9
UTE TRIBAL 2-35B	4301330106	00705	1N 2W 35
E. YUMP #1	4301330167	00710	1N 1W 31
UTE TRIBAL 1-26B	4301330168	00715	1N 2W 26
FARNSWORTH #1	4301330169 30209	00730	1S 4W 18 — Fee
SHINER #1-14A4	4301330258	00735	1S 4W 14 — Fee
BASTIAN #1-2A1	4304731373	00736	1S 1W 2 — Fee
CARSON 2-36A1	4304731407	00737	1S 1W 36
V. MILES #1	4301330275	00740	1S 4W 20 — Fee
A. RUST #2	4301330290	00745	1S 4W 22 — Fee
REARY #1-X17A3	4301330326	00750	1S 3W 17 — Fee
UTE TRIBAL 1-32Z1	4301330324	00755	1N 1W 32
GOVT 4-14	4304730155	00760	6S 20E 14
SADIE BLANK 1-33Z1	4301330355	00765	1N 1W 33 — Fee
UTE TRIBAL 1-34B	4301310494	00775	1N 2W 34
UTE TRIBAL 1-16	4304730231	00780	1S 1E 16
PAPADOPULOS 1-34A1E	4304730241	00785	1S 1E 34 — Fee
C. J. HACKFORD 1-23	4304730279	00790	1S 1E 23 — Fee
UTE TRIBAL 1-35A1E	4304730286	00795	1S 1E 35
UTE TRIBAL 1-17A1E 27 (DTS)	4304730421	00800	1S 1E 27
DAVIS 1-33	4304730384	00805	1S 1E 33 — Fee
UTE TRIBAL 1-22A1E	4304730429	00810	1S 1E 22
LARSEN 1-25A1	4304730552	00815	1S 1W 25 — Fee
DRY GULCH 1-36A1	4304730569	00820	1S 1W 36 — Fee
NELSON 1-31A1E	4304730671	00830	1S 1E 31 — Fee
UTE TRIBAL 1-32A1E	4304730676	00835	1S 1E 32
ROSEMARY LLOYD 1-24A1E	4304730707	00840	1S 1E 24 — Fee
H. D. LANDY 1-30A1E	4304730790	00845	1S 1E 30 — Fee
UTE TRIBAL 1-15A1E	4304730820	00850	1S 1E 15
WALKER 1-14A1E 05 (DTS)	4304730820	00855	1S 1E 14 — Fee
UTE TRIBAL 1-17A1E	4304730829	00860	1S 1E 17
UTE TRIBAL 1-25A1E	4304730830	00865	1S 1E 25
FAUSETT 1-26A1E	4304730821	00870	1S 1E 26 — Fee
HOUSTON 1-34Z1	4301330566	00885	1N 1W 34 — Fee
E. FISHER #2-26A4	4301331119	00890	1S 4W 26 — Fee
UTE TRIBAL 1-29A1E	4304730937	00895	1S 1E 29
BOLTON 2-29A1E	4304731112	00900	1S 1E 29 — Fee
WISSE 1-28Z1	4301330609	00905	1N 1W 28 — Fee
POWELL 1-21B1	4301330621	00910	2S 1W 21 — Fee
UTE TRIBAL 2-22A1E	4304731265	00915	1S 1E 22 — Fee
L. BOLTON 1-12A1	4304731295	00920	1S 1W 12 — Fee
H. MARTIN 1-21Z1	4301330707	00925	1N 1W 21 — Fee
FOWLES 1-26A1	4304731296	00930	1S 1W 26 — Fee
LAWSON 1-21A1	4301330738	00935	1S 1W 21 — Fee
R. HOUSTON 1-22Z1	4301330884	00936	1N 1W 22 — Fee
BIRCHELL 1-27A1	4301330758	00940	1S 1W 27 — Fee
WESLEY BASTIAN FEE #1	4301310496	00942	1S 1W 8 — Fee
KNIGHT #1	4301330184	01090	2S 3W 28 — Fee
MYRIN RANCH #1	4301330176	01091	2S 3W 20 — Fee
DUSTIN #1	4301330122	01092	2S 3W 22 — Fee
HANSEN #1	4301330161	01093	2S 3W 23 — Fee
PRESCOTT 1-35Z1	4304731173	01425	1N 1W 35 — Fee

WELL NAME	API NUMBER		LOCATION
KW CARRELL #1	4301330158	02307	2S 3W 27 — Fee
D. R. LONG 2-19A1E	4304731470	09505	1S 1E 19 — Fee
OBERHANSLY 2-31Z1	4301330970	09725	1N 1W 31 — Fee
O MOON 2-26Z1	4304731480	10135	1N 1W 26 — Fee
PAPADOPULOS 2-34A1E	4304730683	10610	1S 1E 34 — Fee
JESSEN 2-14A4	4301331160	10611	1S 4W 14 — Fee
UTE TRIBAL #2-34Z2	4301331167	10668	1N 2W 34
BASTIAN #3-8A1	4301331181	10758	1S 1W 8 — Fee
LILA D. #2-25A1	4304731797	10790	1S 1W 25 — Fee
Tenneco 21-19	4304731004		2S 1E 19

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DIVISION OF OIL, GAS & MINING

Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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

December 14, 1989

GW Petroleum Inc.
1111 Bagby
Suite 1700
Houston, Texas 77002

Gentlemen:

Re: Notification of Lease Sale or Transfer

The division recently received notification of a change of operator from GW Petroleum Inc. to Flying J Corporation for the following wells located on fee leases:

Farnsworth #1 1S 4W 5-18	API No. 43-013-30209
Shiner #1-14A4	API No. 43-013-30258
Bastian 1-2A1	API No. 43-047-31373
V. Miles #1 1S 4W 5-20	API No. 43-013-30275
A. Rust #2 1S 4W 5-22	API No. 43-013-30290
Reary 1-X17A3	API No. 43-013-30326
Sadie Blank 1-33Z1	API No. 43-013-30355
Papadopulos 1-34A1E	API No. 43-047-30241
C.J. Hackford 1-23 1S 1E 23	API No. 43-047-30279
Davis 1-33 1S 1E 33	API No. 43-047-30384
Larsen 1-25A1	API No. 43-047-30552
Dry Gulch 1-36A1	API No. 43-047-30569
Nelson 1-31A1E	API No. 43-047-30671
Rosemary Lloyd 1-24A1E	API No. 43-047-30707
H.D. Landy 1-30A1E	API No. 43-047-30790
Walker 1-14A1E	API No. 43-047-30805
Fausett 1-26A1E	API No. 43-047-30821
Houston 1-34Z1	API No. 43-013-30566
E. Fisher #2-26A4	API No. 43-013-31119
Boulton 2-29A1E	API No. 43-047-31112
Wisse 1-28Z1	API No. 43-013-30609
Powell 1-21B1	API No. 43-013-30621
Ute Tribal 2-22A1E	API No. 43-047-31265
L. Bolton 1-12A1	API No. 43-047-31295
H. Martin 1-21Z1	API No. 43-013-30707

an equal opportunity employer

H. Martin 1-21Z1				API No. 43-013-30707
Fowles 1-26A1				API No. 43-047-31296
Lawson 1-21A1				API No. 43-013-30738
R. Houston 1-22Z1				API No. 43-013-30884
Birchell 1-27A1				API No. 43-013-30758
Wesley Bastian Fee #1	1S	2W	8	API No. 43-013-10496
Knight #1	2S	3W	2[illegible]	API No. 43-013-30184
Myrin Ranch #1	2S	3W	2[illegible]	API No. 43-013-30176
Dustin #1	2S	3W	2[illegible]	API No. 43-013-30122
Hansen #1	2S	3W	25	API No. 43-013-30161
Prescott 1-35Z1				API No. 43-047-31173
KW Carrell #1	2S	3W	27	API No. 43-013-30158
D. R. Long 2-19A1E				API No. 43-047-31470
Oberhansly 2-31Z1				API No. 43-013-30970
O Moon 2-26Z1				API No. 43-047-31480
Papadopulos 2-34A1E				API No. 43-047-30683
Jessen 2-14A4				API No. 43-013-31160
Bastian #3-8A1				API No. 43-013-31181
Lila D. #2-25A1				API No. 43-047-31797

Rule R615-2-10, of the Utah Oil and Gas Conservation General Rules, states:

> "The owner of a lease shall provide notification to any person with an interest in such lease, when all or part of that interest in the lease is sold or transferred."

This letter is written to advise GW Petroleum Inc. of its responsibility to notify all individuals with an interest in these leases of the change of operator. Please provide written documentation of this notification to the division no later than January 15, 1990.

Sincerely,

Don Staley

Don Staley
Administrative Supervisor
Oil and Gas

ldc
cc: D.R. Nielson
R.J. Firth
Well files
HOI3/1

FLYING J INC.
333 WEST CENTER - NORTH SALT LAKE, UTAH 84054
(801) 298-7733

① - Rwm ✓ (film)
② - Well Files (see attached list)

December 19, 1989

RECEIVED
DEC 22 1989
DIVISION OF
OIL, GAS & MINING

Mr. Don Staley
Division of Oil, Gas & Mining
3 Triad Center, Suite 350
Salt Lake City, UT 84180

RE: GW Petroleum Sale of Properties to Flying J
Bluebell/Altamont Fields
Duchesne, Uintah Counties, UT

Dear Mr. Staley:

Norman Zeiler of GW Petroleum informed me today that he had received a letter from the Division or Oil, Gas & Mining indicating that per Utah statute, owners under the properties which they sold to Flying J needed to be informed of the sale. Please be advised that Flying J has sent new division orders to all royalty, overriding royalty and working interest owners based on the pay sheets we received from GW Petroleum. With the new division orders we enclosed a letter stating that Flying J had purchased these properties from GW Petroleum. That would cover all the owners in FJ operated properties for whom we had correct addresses. We have also contacted the operators for non-operated wells in order to have the revenue stream converted to FJ. The assignment showing all leases we purchased has been recorded in both Uintah and Duchesne counties. We are in the process of having non-operators under communitized locations sign designations of operator naming Flying J the new operator.

Please advise if this does not constitute notice under Utah law. If it does not, please let me know as soon as possible what additional steps need to be taken to comply.

Yours very truly,

LaVonne J. Garrison-Stringer

LaVonne J. Garrison-Stringer
Land Manager

cc: Mr. Norman Zeiler

FLYING J EXPLORATION AND PRODUCTION INC.
333 W. CENTER, P.O. BOX 175 - NORTH SALT LAKE CITY, UTAH 84054
PHONE (801) 298-7733

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FEB 28 1990
DIVISION OF
OIL, GAS & MINING

OIL AND GAS	
DRN	RJF
JRB	GLH
DTS	SLS
1-TAS	
2- MICROFILM	
3- FILE	

27 February 1990

Don Staley, Administrative Supervisor
Division of Oil, Gas & Mining
355 West North Temple
Three Triad Center - Suite 350
Salt Lake City, UT 84180-1203

Dear Mr. Staley:

Please note the following status of the shut-in and temporarily abandoned wells which Flying J is the designated operator:

Well Name	API #	STATUS
Wesley Bastian #1	4301310496	
KW Carrell #1	4301330158	Mechanical - evaluating
Dustin #1	4301330122	Mechanical - plan to repair
Farnsworth #1	4301330209	Mechanical - plan to repair
Fausett #1-26A1E	4304730821	Mechanical - plan to repair
Government #1-18	4304720171	Mechanical - evaluating
Government #2-18	4304720062	Uneconomical - evaluating
Hansen #1	4301330161	Mechanical - plan to repair
Knight #1	4301330184	Uneconomical - will be recompleted
Larsen #1-25A1	4304730552	Uneconomical - plan to P&A Sec. 21 T. 1 S R. 1 W
Lawson #-2A1E	4301330738	Uneconomical - plan to P&A
M.P. #2-341E	4304730683	Uneconomical - evaluating
V. Miles #1-20A4	4301330275	Uneconomical - evaluating
Myrin Ranch #1	4301330176	Mechanical - plan to repair
Shiner #1-14A4	4301330258	Uneconomical - evaluating
Ute #1-16	4304730231	Mechanical - evaluating
Ute #1-22A1E	4304730429	Mechanical - evaluating
Ute #1-25A1E	4304730830	Uneconomical - evaluating
Ute #1-34Z2	4301310494	Uneconomical - evaluating
Ute #2-8A1	4301330020	Mechanical - plan to repair
Ute #2-35Z2	4301330106	Uneconomical - plan to recomplete
E. Yump #1	4301330167	Uneconomical - plan to P&A

Please note that there are no wells which have suspended drilling operations.

If there are any questions whatsoever, please contact this office.

Very truly yours,

Jodie Faulkner

(A SUBSIDIARY OF FLYING J INC.)

Jodie S. Faulkner
Production Technician

Form 9

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

6. Lease Designation and Serial Number

7. 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— for such proposals.

8. Unit or Communitization Agreement

1. Type of Well
[X] Oil Well [ ] Gas Well [ ] Other (specify)

9. Well Name and Number

2. Name of Operator
FLYING J OIL & GAS INC

10. API Well Number

3. Address of Operator
333 WEST CENTER STREET, N.S.L., UT 84054

4. Telephone Number
(801)298-7733

11. Field and Pool, or Wildcat

5. Location of Well
Footage :
QQ, Sec, T., R., M. :
County :
State : UTAH

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

NOTICE OF INTENT
(Submit in Duplicate)

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

Approximate Date Work Will Start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

- [ ] Abandonment *
- [ ] Casing Repair
- [ ] Change of Plans
- [ ] Conversion to Injection
- [ ] Fracture Treat
- [X] Other ANNUAL STATUS REPORT OF SHUT-IN WELLS
- [ ] New Construction
- [ ] Pull or Alter Casing
- [ ] Shoot or Acidize
- [ ] Vent or Flare
- [ ] Water Shut-Off

Date of Work Completion _____

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

* Must be accompanied by a cement verification report.

13. 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.)

SEE ATTACHED

RECEIVED
MAR 23 1992
DIVISION OF
OIL GAS & MINING

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

Name & Signature JOHN R. BASA Title Senior Petroleum Engineer Date 3/12/92

(State Use Only)

(8/90)

See Instructions on Reverse Side

2-26-92
JRB

FLYING J OIL & GAS INC.
UTAH ANNUAL STATUS REPORT OF SHUT-IN WELLS - 1992

WELL NAME & NO.	T-R-SEC	API NUMBER	LAST PRODUCED	REASON FOR SHUT-IN	FUTURE PLANS FOR WELL
EVERETT YUMP 1-31Z1	1N-1W-31	43-013-30167	AUG 84	UNECONOMIC WELL	P&A
UTE 1-34Z2	1N-2W-34	43-013-10494	SEPT 86	UNECONOMIC WELL	RECOMPLETE TO TGR
UTE 1-16A1E	1S-1E-16	43-047-30231	JULY 88	UNECONOMIC WELL	P&A
UTE 1-22A1E	1S-1E-22	43-047-30429	AUG 85	UNECONOMIC WELL	P&A
FAUSETT 1-26A1E	1S-1E-26	43-047-30821	AUG 88	UNECONOMIC WELL	P&A
UTE 1-32A1E	1S-1E-32	43-047-30676	JULY 90	UNECONOMIC WELL	P&A
PAPADOPULOS 2-34A1E	1S-1E-34	43-047-30683		UNECONOMIC WELL	P&A
LAWSON 1-21A1	1S-1W-21	43-013-30738	JULY 88	UNECONOMIC WELL	P&A
LARSEN 1-25A1	1S-1W-25	43-047-30552	NOV 87	UNECONOMIC WELL	CONVERT TO SWD
WESLEY BASTIAN 1 (8A1)	1S-1W-8	43-013-10496		UNECONOMIC WELL	P&A
UTE 2-8A1	1S-1W-8	43-013-30020	JAN 87	UNECONOMIC WELL	P&A
REARY 1X-17A3	1S-3W-17	43-013-30326	DEC 89	UNECONOMIC WELL	RECOMPLETE TO TGR
SHINER 1-14A4	1S-4W-14	43-013-30258	SEPT 86	UNECONOMIC WELL	P&A
JESSEN 2-14A4	1S-4W-14	43-013-31160	JULY 91	UNECONOMIC WELL	P&A
FARNSWORTH 1-18A4	1S-4W-18	43-013-30209	APR 88	UNECONOMIC WELL	P&A
MILES 1-20A4	1S-4W-20	43-013-30275	SEPT 86	UNECONOMIC WELL	RECOMPLETE TO TGR
MYRIN RANCH 1-20B3	2S-3W-20	43-013-30176	OCT 88	UNECONOMIC WELL	RECOMPLETE TO TGR
DUSTIN 1-22B3	2S-3W-22	43-013-30122	SEPT 87	TUBING AND CASING LEAK	RECOMPLETE TO TGR
HANSEN 1-23B3	2S-3W-23	43-013-30161	MAY 88	UNECONOMIC WELL	RECOMPLETE TO TGR
K.W.CARRELL 1-27B3	2S-3W-27	43-013-30158	JULY 84	UNECONOMIC WELL	P&A
MONADA STATE 1	6S-19E-2	43-047-30080		UNECONOMIC WELL	P&A
GOVERNMENT 2-18	6S-21E-18	43-047-20062	MAY 86	UNECONOMIC WELL	P&A
GOVERNMENT 1	6S-21E-19	43-047-20171	APR 85	UNECONOMIC WELL	P&A

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:

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

8. Well Name and Number:

2. Name of Operator:
FLYING J OIL & GAS INC.

9. API Well Number:

3. Address and Telephone Number: (801)298-7733
333 WEST CENTER STREET, P.O. BOX 540180, N.S.L., UT 84054

10. Field and Pool, or Wildcat:

4. Location of Well

Footages:

County:

QQ, Sec.,T.,R.,M.:

State:

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

NOTICE OF INTENT
(Submit in Duplicate)

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

Approximate date work will start

SUBSEQUENT REPORT
(Submit Original Form Only)

- [ ] Abandonment *
- [ ] Casing Repair
- [ ] Change of Plans
- [ ] Conversion to Injection
- [ ] Fracture Treat
- [ ] New Construction
- [ ] Pull or Alter Casing
- [ ] Shoot or Acidize
- [ ] Vent or Flare
- [ ] Water Shut-Off
- [X] Other ANNUAL STATUS REPORT OF SHUT IN WELLS

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.)

SEE ATTACHED

RECEIVED
JAN 29 1993
DIVISION OF
OIL, GAS & MINING

13.
Name & Signature: John R. Baza JOHN R. BAZA Title: SR. PETROLEUM ENGINEER Date: 1/28/93

(This space for State use only)

(12\92)

(See Instructions on Reverse Side)

1-28-93

FLYING J OIL & GAS INC.
UTAH ANNUAL STATUS REPORT OF SHUT-IN-WELLS – 1993

WELL NAME & NO.	T-R SEC	API NUMBER	LAST PRODUCED	REASEON FOR SHUT-IN	FUTURE PLANS FOR WELL
EVERETT YUMP 1-31Z1	1N-1W-31	43-13-30167	AUG 84	UNECONOMIC WELL	P&A
UTE 1-26Z2	1N-2W-26	43-013-30168	JUN 92	UNECONOMIC WELL	P&A
UTE 1-34Z2	1N-2W-34	43-013-10494	SEPT 86	UNECONOMIC WELL	RECOMPLETE TO TGR
UTE 1-16A1E	1S-1E-16	43-047-30231	JULY 88	UNECONOMIC WELL	P&A
UTE 1-22A1E	1S-1E-22	43-047-30429	AUG 85	UNECONOMIC WELL	P&A
PAPADOPULOS 2-34A1E	1S-1E-34	43-047-30683		UNECONOMIC WELL	P&A
WESLEY BASTIAN 1 (8A1)	1S-1W-8	43-013-10496		UNECONOMIC WELL	P&A
U[illegible]-8A1	1S-1W-8	43-013-30020	JAN 87	UNECONOMIC WELL	P&A
LAWSON 1-21A1	1S-1W-21	43-013-30738	JULY 88	UNECONOMIC WELL	P&A
LARSON 1-25A1	1S-1W-25	43-047-30552	NOV87	UNECONOMIC WELL	CONVERT TO SWD
DRY GULCH 1-36A1	1S-1W-36	43-047-30569	APR 92	UNECONOMIC WELL	P&A
REARY 1X-17A3	1S-3W-17	43-013-30326	DEC 89	UNECONOMIC WELL	RECOMPLETE TO TGR
SHINER 1-14A4	1S-4W-14	43-013-30258	SEPT 86	UNECONOMIC WELL	P&A
FARNSWORTH 1-18A4	1S-4W-18	43-013-30209	APR 88	UNECONOMIC WELL	P&A
MILES 1-20A4	1S-4W-20	43-013-30275	SEPT 86	UNECONOMIC WELL	RECOMPLETE TO TGR
MYRIN RANCH 1-20B3	2S-3W-20	43-013-30176	OCT 88	UNECONOMIC WELL	RECOMPLETE TO TGR
K.W. CARRELL 1-27B3	2S-3W-27	43-013-30158	JULY 84	UNECONOMIC WELL	P&A
MONADA STATE 1	6S-19E-2	43-047-30080		UNECONOMIC WELL	P&A
GOVERNMENT 2-18	6S-21E-18	43-047-20062	MAY 86	UNECONOMIC WELL	P&A
GOVERNMENT 1	6S-21E-19	43-047-20171	APR 85	UNECONOMIC WELL	P&A

RECEIVED
JAN 29 1993
DIVISION OF
OIL GAS & MINING

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:

C/O FLYING J O&G INC
FLYING J INC
PO DRAWER 130/G ROBB
ROOSEVELT UT 84066

UTAH ACCOUNT NUMBER: N1195

REPORT PERIOD (MONTH/YEAR): 2 / 95

AMENDED REPORT ☐ **(Highlight Changes)**

Well Name API Number	Entity	Location	Producing Zone	Well Status	Days Oper	Production Volumes OIL(BBL)	GAS(MCF)	WATER(BBL)
✓HOUSTON 1-34Z1 4301330566	00885	01N 01W 34	GR-WS			Fee		
✓E. FISHER 2-26A4 4301331119	00890	01S 04W 26	GR-WS			Fee	CR-I-156	(INC)
✓UTE TRIBAL 1-29A1E 4304730937	00895	01S 01E 29	GR-WS			14204622925	UT080149-84C712	(INC)
✓BOLTON 2-29A1E 4304731112	00900	01S 01E 29	GR-WS			Fee	"	"
✓WISSE 1-28Z1 4301330609	00905	01N 01W 28	GR-WS			Fee	UT080149-84C713	(INC)
✓POWELL 1-21B1 [illegible]01330621	00910	02S 01W 21	GR-WS			Fee		
✓UTE TRIBAL 2-22A1E 4304731265	00915	01S 01E 22	WSTC			Fee		
✓L. BOLTON 1-12A1 4304731295	00920	01S 01W 12	GR-WS			Fee	VR491-84670C	(INC)
✓H.MARTIN 1-21Z1 4301330707	00925	01N 01W 21	GR-WS			Fee	UT080149-85C680	(INC)
✓FOWLES 1-26A1 4304731296	00930	01S 01W 26	GR-WS			Fee	UT080149-85C705	(INC)
✓LAWSON 1-21A1 4301330738	00935	01S 01W 21	GR-WS			Fee	VR491-84671C	(INC)
✓R. HOUSTON 1-22Z1 4301330884	00936	01N 01W 22	GR-WS			Fee		
✓BIRCHELL 1-27A1 4301330758	00940	01S 01W 27	GR-WS			Fee	VR491-84673C	(INC)
					TOTALS			

COMMENTS:

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

Name and Signature: Telephone Number:

(12/93)

FLYING J OIL & GAS INC.
333 WEST CENTER STREET • P.O. BOX 540180 • NORTH SALT LAKE, UTAH 84054-0180
PHONE (801) 298-7733 • FAX (801) 298-9394

March 8, 1995

Ms. Diane Mitchell
Bureau of Indian Affairs
P. O. Box 130
Fort Duchesne, Utah 84026

Re: State of Utah
Communitization Agreements
Duchesne and Uintah Counties

Dear Diane:

Enclosed, herewith is a recorded copies of the following list documents in order for you to approve all of the Communitization Agreements from Flying J Inc. and Flying J Exploration & Production Inc. into Flying J Oil & Gas Inc:

1. Affidavit with Articles of Merger of Flying J Uintah Inc with and into Flying J Oil & Gas Inc.

2. Assignment from Flying J Inc. into Flying J Uintah Inc.

3. Assignment from Flying J Uintah Inc. into Flying J Inc.

4. Assignment from Flying J Inc. and Flying J Exploration and Production Inc. into Flying J Uintah Inc.

Attached is a list of the Communitization Agreements that are still in the name of Flying J Inc. and Flying J Exploration and Production Inc.

Should you need any additional information, please contact the undersigned.

Sincerely,

FLYING J OIL & GAS INC.

Coralie Timothy

Coralie Timothy
Lease Records Administrator

cc: Ms. Theresa Thompson, Bureau of Land Management, Salt Lake
Ms. Lisha Cordova, State of Utah, Oil, Gas and Mining

COMMUNITIZATION AGREEMENTS
STATE OF UTAH

March 8, 1995

Listed below are the Communitization Agreements to be changed into the name of Flying J Oil & Gas Inc.:

Comm Agreement No.	Operator
UT080I49-85C680	Flying J Inc.
UT080I49-85C705	Flying J Inc.
UT080I49-84C713	Flying J Inc.
9C-000122	Flying J Inc.
9C-000144	Flying J Inc.
VR49I-84683C	Flying J Inc.
UT080I49-86C681	Flying J Explor. & Prod.
VR49I-84689C	Flying J Inc.
9C-000171	Flying J Explor. & Prod.
9C-000175	Flying J Inc.
UT080I49-84C712	Flying J Inc.
CR-I-157	Flying J Inc.
9C-000176	Flying J Inc.
9C-000149	Flying J Inc.
9C-000173	Flying J Inc.
96-000111	Flying J Explor. & Prod.
VR49I-84670C	Flying J Inc.
VR49I-84671C	Flying J Inc.
VR49I-84673C	Flying J Inc.
VR49I-84677C	Flying J Inc.
NRM-696	Flying J Inc.
96-000115	Flying J Explor. & Prod.
CR-I-156	Flying J Inc.
UT080I49-85C680	Flying J Inc.
UT080I49-85C705	Flying J Inc.
UT080I49-84C713	Flying J Inc.
9C-000122	Flying J Inc.
9C-000144	Flying J Inc.
VR49I-84683C	Flying J Inc.
UT080I49-86C681	Flying J Explor. & Prod.
VR49I-84689C	Flying J Inc.
9C-000171	Flying J Explor. & Prod.
9C-000175	Flying J Inc.
UT080I49-84C712	Flying J Inc.
CR-I-157	Flying J Inc.
9C-000176	Flying J Inc.
9C-000149	Flying J Inc.
9C-000173	Flying J Inc.
96-000111	Flying J Explor. & Prod.
VR49I-84670C	Flying J Inc.
VR49I-84671C	Flying J Inc.
VR49I-84673C	Flying J Inc.
VR49I-84677C	Flying J Inc.
NRM-696	Flying J Inc.

96-000115	Flying J Explor. & Prod.
CR-I-156	Flying J Inc.
NW-616	Flying J Explor. & Prod.

A F F I D A V I T

STATE OF UTAH)
) SS
County of Davis)

ENTRY 93004995
BOOK 556 PAGE 219

I, LaVonne J. Garrison-Stringer, of lawful age, and being first duly sworn, upon my oath, deposes and says:

1. That I am the Land Manager for Flying J Oil & Gas Inc. and am duly authorized to make this Affidavit on behalf of the corporation.

2. That attached hereto and by this reference made a part hereof is a certified copy of the Articles of Merger of Flying J Uintah Inc. with and into Flying J Oil & Gas Inc. dated effective Jaunary 2, 1991.

3. That Flying J Oil & Gas Inc. has interests in the following described sections located in Duchesne and/or Uintah Counties, Utah.

Township 1 North, Range 1 West, USM
Sections 20, 21, 22, 23, 26, 27, 28, 30, 31, 32, 33, 34, 35

Township 1 North, Range 2 West, USM
Sections 26, 31, 34, 35

Township 1 South, Range 1 East, USM
Sections 10, 14, 15, 16, 17, 18, 19, 22, 23, 24, 25, 26, 27, 29, 30, 31, 32, 33, 34, 35

Township 1 South, Range 1 West, USM
Sections 2, 4, 8, 9, 10, 11, 12, 14, 15, 16, 17, 18, 21, 22, 23, 25, 26, 27, 28, 29 30, 31, 32, 33, 34, 35, 36

Township 1 South, Range 2 East, USM
Section 30

Township 1 South, Range 2 West, USM
Sections 1, 2, 3, 5, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 20, 21, 22, 23, 24, 25, 26, 28, 29, 32, 33, 34, 35, 36

Township 1 South, Range 3 West, USM
Sections 5, 8, 9, 10, 15, 16, 17, 20, 21, 29, 30, 32, 33

Township 1 South, Range 4 West, USM
Sections 13, 14, 18, 19, 20, 21, 22, 24, 26, 27, 28, 29 30, 33, 35

Township 1 South, Range 5 West, USM
Sections 24, 25, 35

Township 2 South, Range 1 East, USM
Sections 2, 5, 6, 7, 10, 18, 19

Township 2 South, Range 1 West, USM
Sections 1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 12, 15, 16, 17, 18, 20, 21

Township 2 South, Range 2 West, USM
Sections 2, 3, 4, 5, 7, 8, 10, 11, 14, 17, 18, 19, 23, 24

Township 2 South, Range 3 West, USM
Sections 2, 4, 5, 7, 8, 9, 10, 11, 12, 14, 16, 20, 21, 22, 23, 24, 26, 27, 28

Township 3 South, Range 5 West, USM
Sections 14, 15, 16, 26

Township 6 South, Range 20 East, USM
Sections 14

Township 6 South, Range 21 East, USM
Sections 6, 18, 19

ENTRY NO. 93004995 DATE 4-9-91 TIME 8:44AM BOOK 0R2244 PAGE 720-731
FEE $ 112.00 RECORDED AT REQUEST OF Flying J Exploration
Pauline Malan DUCHESNE COUNTY RECORDER DEPUTY

ENTRY 93004995
BOOK 556 PAGE 219 $90.00
30-AUG-93 04:43
RANDY SIMMONS
RECORDER, UINTAH COUNTY, UTAH
FLYING J OIL AND GAS
P O BOX 540180 NO SLC UT 84054-0180
REC BY: BRENDA MCDONALD , DEPUTY

4. That said merger affects Flying J's interest in the sections captioned above and any other lands previously owned by Flying J Uintah Inc. located in Duchesne and/or Uintah Counties, Utah, which are not described herein.

Further Affiant sayeth not.

LAVONNE J. GARRISON-STRINGER

Subscribed and sworn to before me this 20th day of March 1991.

My Commission Expires:
9-9-93

Notary Public for the State of Utah
Residing at Salt Lake City, Utah

Notary Public
CORALIE TIMOTHY
3291 South 4440 West
West Valley, Utah 84120
My Commission Expires
September 9, 1993
State of Utah

STATE OF UTAH
DEPARTMENT OF COMMERCE
DIVISION OF CORPORATIONS AND COMMERCIAL CODE

I hereby certify that the foregoing has been filed and approved on the 9th day of Jan 91 in the office of this Division

EXAMINER DS Date 1/9/91

PETER [illegible]
DIVISION DIRECTOR

191158

ENTRY 93004995
BOOK 556 PAGE 221
RECEIVED
1991 JAN -9 PM 2:59
DIVISION OF CORPORATIONS
STATE OF UTAH

ARTICLES OF MERGER
OF
FLYING J UINTAH INC. CC 138596
WITH AND INTO
FLYING J OIL & GAS INC.
CC 147768

THESE ARTICLES OF MERGER (the "Articles") are filed pursuant to Section 69 of the Utah Business Corporation Act by Flying J Uintah Inc., a Utah corporation ("Flying J Uintah"), and Flying J Oil & Gas Inc., a Utah corporation ("Oil & Gas").

Flying J Uintah and Oil & Gas hereby certify as follows:

1. The Boards of Directors of Flying J Uintah and Oil & Gas have approved a Plan of Merger relating to the merger of Flying J Uintah with and into Oil & Gas, with Oil & Gas being the surviving corporation. A copy of this Plan of Merger, in the form so approved, is attached to these Articles as Exhibit A.

2. Flying J Uintah has 1,000 shares of Common Stock outstanding, and Oil & Gas has 3,000,000 shares of Common Stock outstanding.

3. All outstanding shares of Flying J Uintah and of Oil & Gas were voted for the Plan of Merger.

Oil & Gas, as the surviving corporation, hereby requests that the Utah Department of Commerce, Division of Corporations and Commercial Code: (i) endorse on the original and one copy of these Articles the word "filed" and the month, day and year of the filing; (ii) file the original in its office; and (iii) issue a Certificate of Merger, together with an attached copy of the Articles of Merger, to Oil & Gas's representative: P. Christian Anderson, Esq., Rogers, Mackey, Price, Anderson & Cannon, 900

ENTRY NO. _____ DATE _____ TIME _____ BOOK _____ PAGE _____
FEE $ _____ RECORDED AT REQUEST OF _____
_____ DUCHESNE COUNTY RECORDER _____ DEPUTY

First Interstate Plaza, 170 South Main Street, Salt Lake City, Utah 84101.

IN WITNESS WHEREOF, Flying J Uintah and Oil & Gas have caused these Articles of Merger to be executed effective as of the 2nd day of January, 1991 by their duly authorized officers. The undersigned declare, under penalty of perjury, that the matters set forth above are true.

FLYING J UINTAH INC.

By: _____
J. Phillip Adams,
President

By: _____
Barre G. Burgon,
Secretary

FLYING J OIL & GAS INC.

By: _____
J. Phillip Adams,
President

By: _____
Barre G. Burgon,
Secretary

017A-FJI.AOM
101890

EXHIBIT A

AGREEMENT AND PLAN OF MERGER

OF FLYING J UINTAH INC.

AND FLYING J OIL & GAS INC.

THIS AGREEMENT AND PLAN OF MERGER, dated as of December 1, 1990 (the "Agreement") is entered into by and between Flying J Uintah Inc., a Utah corporation ("Flying J Uintah"), and Flying J Oil & Gas Inc., a Utah corporation ("Oil & Gas"). Uintah and Oil & Gas are sometimes referred to herein as the "Constituent Corporations."

RECITALS

A. Flying J Uintah is a corporation duly organized and existing under the laws of the State of Utah and has an authorized capital of 1,000 shares of Common Stock, having a par value of $1.00 per share. All 1,000 authorized shares of Flying J Uintah's Common Stock (the "Flying J Uintah Shares") are issued and outstanding. No options, warrants, or other rights or securities exercisable for or convertible into Common Stock of Flying J Uintah have been issued or are outstanding.

B. Oil & Gas is a corporation duly organized and existing under the laws of the State of Utah and has an authorized capital of 10,000,000 shares of Common Stock, $1.00 par value per share, and 2,000,000 shares of Preferred Stock, $1.00 par value per share. Oil & Gas has issued and outstanding 3,000,000 shares of Common Stock (the "Oil & Gas Shares") and no shares of Preferred Stock.

C. All of the Flying J Uintah Shares and the Oil & Gas Shares are held by Big West Oil Company, a Delaware corporation ("Parent"), so that both Oil & Gas and Flying J Uintah are wholly owned subsidiaries of Parent.

D. Parent and the respective Boards of Directors of Flying J Uintah and Oil & Gas have determined that, for the purpose of consolidating oil and gas properties and operations, it is advisable that Flying J Uintah merge with and into Oil & Gas, with Oil & Gas to be the surviving corporation, upon the terms and conditions herein provided.

NOW THEREFORE, in consideration of the mutual agreements and covenants set forth herein, the Constituent Corporations hereby agree, subject to the terms and conditions hereinafter set forth, as follows:

I. MERGER

1.1 Merger. In accordance with the provisions of this Agreement and the Utah Business Corporation Act, Flying J Uintah shall be merged with and into Oil & Gas (the "Merger") and Oil & Gas shall be, and is herein sometimes referred to as, the "Surviving Corporation," and the name of the Surviving Corporation shall be "Flying J Oil & Gas Inc."

1.2 Filing and Effectiveness. The Merger shall become effective when the following actions shall have been completed:

(a) This Agreement and the Merger shall have been approved by the Board of Directors of each of the Constituent

Corporations and by Parent as the sole shareholder of each of the Constituent Corporations, in accordance with the requirements of the Utah Business Corporation Act; and

(b) An executed form of Articles of Merger or an executed counterpart of this Agreement shall have been filed with the Utah Department of Commerce, Division of Corporations and Commercial Code.

The date and time when the Merger shall become effective, as aforesaid, is herein called the "Effective Date of Merger."

1.3 Certificate of Incorporation. The Articles of Incorporation of Oil & Gas as in effect immediately prior to the Effective Date of Merger shall continue in full force and effect as the Articles of Incorporation of the Surviving Corporation until duly amended in accordance with the provisions thereof and applicable law.

1.4 Bylaws. The Bylaws of Oil & Gas as in effect immediately prior to the Effective Date of Merger shall continue in full force and effect as the Bylaws of the Surviving Corporation until duly amended in accordance with the provisions thereof and applicable law.

1.5 Directors and Officers. The directors and officers of Oil & Gas immediately prior to the Effective Date of Merger shall be the directors and officers of the Surviving Corporation until their successors shall have been elected and qualified or until otherwise provided by law, the Articles of Incorporation of the

Surviving Corporation, or the Bylaws of the Surviving Corporation.

1.6 Effect of Merger. Upon the Effective Date of Merger, the separate existence of Flying J Uintah shall cease and Oil & Gas, as the Surviving Corporation: (i) shall continue to possess all of its assets, rights, powers and property as constituted immediately prior to the Effective Date of Merger, and shall succeed, without other transfer, to all of the assets, rights, powers and property of Flying J Uintah in the manner of and as more fully set forth in Section 71 of the Utah Business Corporation Act, and (ii) shall continue to be subject to all of its debts, liabilities and obligations as constituted immediately prior to the Effective Date of Merger and shall succeed, without other transfer, to all of the debts, liabilities and obligations of Flying J Uintah in the same manner as if Oil & Gas had itself incurred them, all as more fully provided under the applicable provisions of Section 71 of the Utah Business Corporation Act.

II. MANNER OF CONVERSION OF STOCK

2.1 Flying J Uintah Common Stock. Upon the Effective Date of Merger, each of the Flying J Uintah Shares shall, by virtue of the Merger and without any action by the holder of such shares or any other person, be cancelled.

2.2 Oil & Gas Common Stock. Upon the Effective Date of Merger, each of the Oil & Gas Shares shall remain fully paid and non-assessable shares of the duly issued and outstanding Common Stock of Oil & Gas, as the Surviving Corporation.

III. GENERAL

3.1 Covenants of Oil & Gas. Oil & Gas covenants and agrees that it will, on or before the Effective Date of Merger:

(a) Qualify to do business as a foreign corporation in any jurisdictions where such a qualification is required, including the States of North Dakota, Wyoming and Montana, and in connection therewith establish a registered office and a registered agent if and as required by each state's respective corporation law.

(b) File any and all documents with the tax authority of the State of Utah necessary to the assumption by Oil & Gas of all the Utah state tax liabilities of Flying J Uintah.

(c) Take such other actions as may be required by the Utah Business Corporation Act.

3.2 Abandonment. At any time before the Effective Date of Merger, this Agreement may be terminated and the Merger may be abandoned for any reason whatsoever by the Board of Directors of either Flying J Uintah or Oil & Gas or both, notwithstanding the approval of this Agreement by Parent, as the sole shareholder of Flying J Uintah and Oil & Gas.

3.3 Amendment. The Boards of Directors of the Constituent Corporations may amend this Agreement at any time prior to the filing of Articles of Merger of a counterpart of this Agreement with the Utah Department of Commerce, provided that an amendment made subsequent to the approval of this Agreement by the Parent as the sole shareholder of the Constituent Corporations shall

not: (1) alter or change the amount or kind of shares, securities, cash, property and/or rights to be received in exchange for or on conversion of all or any of the shares of any class or series thereof of such Constituent Corporation; (2) alter or change any term of the Certificate of Incorporation of the Surviving Corporation to be effected by the merger or consolidation; or (3) alter or change any of the terms and conditions of this Agreement if such alteration or change would adversely affect the Parent as the holder of the Flying J Uintah Shares and the Oil & Gas Shares.

3.4 Registered Office. The registered office of the Surviving Corporation in the State of Utah is located at 50 West 990 South, Brigham City, Utah 84603. O. Jay Call is the registered agent of the Surviving Corporation at such address.

3.5 Governing Law. This Agreement shall in all respects be construed, interpreted and enforced in accordance with and governed by the laws of the State of Utah applicable to contracts entered into and to be performed entirely within such state.

3.6 Counterparts. In order to facilitate the filing and recording of this Agreement, the same may be executed in any number of counterparts, each of which shall be deemed to be an original.

IN WITNESS WHEREOF, this Agreement, having first been approved by resolution of the Boards of Directors of Flying J Uintah and Oil & Gas and by resolution of Parent as the sole shareholder of each of the Constituent Corporations, is hereby executed on

behalf of each of the Constituent Corporations and attested by their respective officers thereunto duly authorized.

FLYING J OIL & GAS INC.,
a Utah corporation

By: J. Phillip Adams
J. Phillip Adams, President

ATTEST:

Barre G. Burgon, Secretary

FLYING J UINTAH INC.,
a Utah corporation

By: J. Phillip Adams
J. Phillip Adams, President

ATTEST:

Barre G. Burgon, Secretary

STATE OF UTAH
DEPARTMENT OF COMMERCE
DIVISION OF CORPORATIONS AND COMMERCIAL CODE

ENTRY 93004995
BOOK 556 PAGE 230

I hereby certify that the foregoing is a true copy of Articles of Merger and the endorsements thereon, as the same is taken from and compared with the original filed in the office of this Division on the 9th day of January A.D. 1991 and now remaining on file and of record therein.

Peter Van Alstyne
PETER VAN ALSTYNE
DIVISION DIRECTOR

Date 1/9/91 File # 147758

By Elizabeth H. Edwards

WHEN RECORDED, RETURN TO:
Flying J Uintah Inc.
Attn: LaVonne Garrison-Stringer
P. O. Box 540180
North Salt Lake, UT 84054-0180

TRY NO. [illegible] DATE [illegible] TIME 11:15 BOOK [illegible] PAGE [illegible]
FEE [illegible] RECORDED AT REQUEST OF [illegible]
[illegible] DUCHESNE COUNTY RECORDER [illegible] DEP

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, FLYING J INC., hereinafter called Assignor, does hereby give grant, assign, transfer and convey unto FLYING J UINTAH INC., hereinafter called Assignee, all of Assignor's right, title, and interest, of whatsoever kind and character, lying within the following described sections located in Duchesne and/or Uintah Counties, Utah.

Township 1 North, Range 1 West, USM
Sections: 20, 21, 22, 23, 26, 27, 28, 30, 31, 32, 33, 34, 35

Township 1 North, Range 2 West, USM
Sections: 26, 31, 34, 35

Township 1 South, Range 1 East, USM
Sections: 10, 14, 15, 16, 17, 18, 19, 22, 23, 24, 25 26, 27, 29, 30, 31, 32, 33, 34, 35

Township 1 South, Range 1 West, USM
Sections: 2, 4, 8, 9, 10, 11, 12, 14, 15, 16, 17, 18, 21, 22, 23, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36

Township 1 South, Range 2 East, USM
Section: 30

Township 1 South, Range 2 West, USM
Sections: 1, 2, 3, 5, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 20, 21, 22, 23, 24, 25, 26, 28, 29, 32, 33, 34, 35, 36

Township 1 South, Range 3 West, USM
Sections: 5, 6, 8, 9, 10, 15, 16, 17, 20, 21, 29, 30, 32, 33

Township 1 South, Range 4 West, USM
Sections: 13, 14, 18, 19, 20, 21, 22, 24, 26, 28, 29, 30, 33, 35

Township 1 South, Range 5 West, USM
Sections: 24, 25, 35

Township 2 South, Range 1 East, USM
Sections: 2, 5, 6, 7, 10, 18, 19

Township 2 South, Range 1 West, USM
Sections: 1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 12, 15, 16, 17, 18, 20, 21

Township 2 South, Range 2 West, USM
Sections: 2, 3, 4, 5, 7, 8, 10, 11, 14, 17, 18, 19, 23

Township 2 South, Range 3 West, USM
Sections: 2, 4, 5, 7, 8, 9, 10, 11, 12, 14, 16, 20, 21, 22, 23, 24, 26, 27, 28

Township 3 South, Range 5 West, USM
Sections: 14, 15, 16

Township 3 South, Range 6 West, USM
Section: 26

Township 6 South, Range 20 East, SLM
Section: 14

Township 6 South, Range 21 East, SLM
Sections: 6, 18, 19

This assignment also covers and includes all of Assignor's interest in all wells, equipment, personal property, and fixtures located on the lands and all contracts and agreements to which these properties are subject.

It is the intent of Assignor to convey to Assignee all of their currently owned interest in Duchesne and Uintah Counties, Utah, in case a description has been omitted from this Assignment.

The interests assigned are conveyed subject to all burdens currently affecting Assignor's interest on the date of this Assignment.

Dated this 9th day of August 1990.

ASSIGNOR, FLYING J INC.

ATTEST

By:

STATE OF Utah)
) ss.
COUNTY OF Box Elder)

On the 9th day of August, 1990, personally appeared before me, Richard E. Germer, to me personally known, who, being by me duly sworn, did say that he is the Senior Vice President of FLYING J INC., that said instrument was signed in behalf of said corporation by authority of its Board of Directors, and acknowledged said instrument to be the free act and deed of said corporation.

Witness by hand and seal this 9th day of August, 1990.

Notary Public

Notary Public
GLORIA NORR UIBEL
322 Greenwood Drive
Brigham City, Utah 84302
My Commission Expires
February 15, 1993
State of Utah

41.00

WHEN RECORDED, RETURN TO: ENTRY NO. 276793 DATE Aug 7 '90 TIME 11:08 BOOK 0R-240 PAGE 617-618
Flying J Inc. FEE $ 52.00 RECORDED AT REQUEST OF Flying J. Inc.
P. O. Box 540180 Carolyn Madsen DUCHESNE COUNTY RECORDER Cheryl Young DEPUTY
North Salt Lake, UT 84054-0180
Attn: LaVonne Garrison-Stringer

ENT 3301-90 BK 490 PG 327-328
MARIE GARDNER UINTAH CO RECORDER
DATE 8-9-90 AT 12:49PM Fee 41.00
Dep C. Allen Rec for Flying J. Inc.

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, FLYING J UINTAH INC., hereinafter called Assignor, does hereby give grant, assign, transfer and convey unto FLYING J INC., hereinafter called Assignee, all of Assignor's right, title, and interest, of whatsoever kind and character, lying within the following described sections located in Duchesne and/or Uintah Counties, Utah.

Township 1 North, Range 1 West, USM
Sections: 20, 21, 22, 23, 26, 27, 28, 30, 31, 32, 33, 34, 35

Township 1 North, Range 2 West, USM
Sections: 26, 31, 34, 35

Township 1 South, Range 1 East, USM
Sections: 10, 14, 15, 16, 17, 18, 19, 22, 23, 24, 25 26, 27, 29, 30, 31, 32, 33, 34, 35

Township 1 South, Range 1 West, USM
Sections: 2, 4, 8, 9, 10, 11, 12, 14, 15, 16, 17, 18, 21, 22, 23, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36

Township 1 South, Range 2 East, USM
Section: 30

Township 1 South, Range 2 West, USM
Sections: 1, 2, 3, 5, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 20, 21, 22, 23, 24, 25, 26, 28, 29, 32, 33, 34, 35, 36

Township 1 South, Range 3 West, USM
Sections: 5, 8, 9, 10, 15, 16, 17, 20, 21, 29, 30, 32, 33

Township 1 South, Range 4 West, USM
Sections: 13, 14, 18, 19, 20, 21, 22, 24, 26, 27, 28, 29, 30, 33, 35

Township 1 South, Range 5 West, USM
Sections: 24, 25, 35

Township 2 South, Range 1 East, USM
Sections: 2, 5, 6, 7, 10, 18, 19

Township 2 South, Range 1 West, USM
Sections: 1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 12, 15, 16, 17, 18, 20, 21

Township 2 South, Range 2 West, USM
Sections: 2, 3, 4, 5, 7, 8, 10, 11, 14, 17, 18, 19, 23, 24

Township 2 South, Range 3 West, USM
Sections: 2, 4, 5, 7, 8, 9, 10, 11, 12, 14, 16, 20, 21, 22, 23, 24, 26, 27, 28

Township 3 South, Range 5 West, USM
Sections: 14, 15, 16, 26

Township 6 South, Range 20 East, USM
Section: 14

Township 6 South, Range 21 East, USM
Sections: 6, 18, 19

This assignment also covers and includes all of Assignor's interest in all wells, equipment, personal property, and fixtures located on the lands and all contracts and agreements to which these properties are subject.

It is the intent of Assignor to convey to Assignee all of their currently owned interest in Duchesne and Uintah Counties, Utah, in case a description has been omitted from this Assignment.

The interests assigned are conveyed subject to all burdens currently affecting Assignor's interest on the date of this Assignment.

Dated this 7th day of August 1990.

ASSIGNOR, FLYING J UINTAH INC. 325

ATTEST

By:

STATE OF Utah)
) ss.
COUNTY OF Box Elder)

On the 7th day of August, 1990, personally appeared before me, Richard E. Germer, to me personally known, who, being by me duly sworn, did say that he is the Senior Vice President of FLYING J UINTAH INC., that said instrument was signed in behalf of said corporation by authority of its Board of Directors, and acknowledged said instrument to be the free act and deed of said corporation.

Witness by hand and seal this 7th day of August, 1990.

Notary Public

Notary Public
GLORIA NORR UIBEL
322 Greenwood Drive
Brigham City, Utah 84302
My Commission Expires
February 15, 1993
State of Utah

State of Utah
County of Duchesne } ss.

I, Cheryl Young, Deputy, County Recorder in and for Duchesne County, hereby certify that the foregoing is a full, true and correct copy of the Assignment Entry # 276791 Book MR-240 page 617-618

and now on file and of record in my office.

In witness whereof, I have hereunto set my hand and affixed the official seal of said office, this 9th day of August, 19 90

Cheryl Young Deputy
County Recorder

ENT 3823-90 BK 490 Pg 177-178
MARIE GARDNER UINTAH CO RECORDER
DATE 8-3-90 AT 11:45AM Fee 38.00
Dep C. White Rec for Flying J Explorat

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Flying J Inc. and Flying J Exploration and Production Inc., hereinafter called Assignors', do hereby give grant, assign, transfer and convey unto Flying J Uintah Inc., hereinafter called Assignee, all of Assignors' right, title, and interest, of whatsoever kind and character, lying within the following described sections located in Duchesne and/or Uintah Counties, Utah.

<u>Township 1 North, Range 1 West, USM</u>
Sections: 20, 21, 22, 23, 26, 27, 28, 30, 31, 32, 33, 34, 35

<u>Township 1 North, Range 2 West, USM</u>
Sections: 26, 31, 34, 35

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<u>Township 1 South, Range 1 East, USM</u>
Sections: 10, 14, 15, 16, 17, 18, 19, 22, 23, 24, 25 26, 27, 29, 30, 31, 32, 33, 34, 35

<u>Township 1 South, Range 1 West, USM</u>
Sections: 2, 4, 8, 9, 10, 11, 12, 14, 15, 16, 17, 18, 21, 22, 23, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36

<u>Township 1 South, Range 2 East, USM</u>
Section: 30

<u>Township 1 South, Range 2 West, USM</u>
Sections: 1, 2, 3, 5, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 20, 21, 22, 23, 24, 25, 26, 28, 29, 32, 33, 34, 35, 36

<u>Township 1 South, Range 3 West, USM</u>
Sections: 5, 8, 9, 10, 15, 16, 17, 20, 21, 29, 30, 32, 33

<u>Township 1 South, Range 4 West, USM</u>
Sections: 13, 14, 18, 19, 20, 21, 22, 24, 26, 27, 28, 29, 30, 33, 35

<u>Township 1 South, Range 5 West, USM</u>
Sections: 24, 25, 35

<u>Township 2 South, Range 1 East, USM</u>
Sections: 2, 5, 6, 7, 10, 18, 19

<u>Township 2 South, Range 1 West, USM</u>
Sections: 1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 12, 15, 16, 17, 18, 20, 21

<u>Township 2 South, Range 2 West, USM</u>
Sections: 2, 3, 4, 5, 7, 8, 10, 11, 14, 17, 18, 19, 23, 24

<u>Township 2 South, Range 3 West, USM</u>
Sections: 2, 4, 5, 7, 8, 9, 10, 11, 12, 14, 16, 20, 21, 22, 23, 24, 26, 27, 28

<u>Township 3 South, Range 5 West, USM</u>
Sections: 14, 15, 16, 26

<u>Township 6 South, Range 20 East, USM</u>
Section: 14

<u>Township 6 South, Range 21 East, USM</u>
Sections: 6, 18, 19

This assignment also covers and includes all of Assignors' interest in all wells, equipment, personal property, and fixtures located on the lands and all contracts and agreements to which these properties are subject.

ENTRY NO. 278328 DATE 7-16-90 TIME 8:42AM BOOK M-240 PAGE 444-445
FEE $ 22.00 RECORDED AT REQUEST OF Flying J Exploration
Charlene Mortensen DUCHESNE COUNTY RECORDER DEPUTY

It is the intent of Assignors to convey to Assignee all of their currently owned interest in Duchesne and Uintah Counties, Utah, in case a description has been omitted from this Assignment.

The interests assigned are conveyed subject to all burdens currently affecting Assignor's interest on the date of this Assignment.

Dated this 25th day of June 1990.

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ATTEST

Barre G. Burgon
Secretary

FLYING J INC.

J. Phillip Adams
~~Barre G. Burgon~~ Executive Vice President

ATTEST

James W. Wilson
James W. Wilson
Assistant Secretary

FLYING J EXPLORATION AND PRODUCTION INC.

John R. Scales
John R. Scales
Vice President/General Manager

STATE OF)
) ss.
COUNTY OF)

On the 26th day of June, 1990, personally appeared before me, Barre G. Burgon and J. Phillip Adams to me personally known, who, being by me duly sworn, did say that they are the Secretary and Executive Vice Pres. of Flying J Inc., that said instrument was signed in behalf of said corporation by authority of its Board of Directors, and acknowledged said instrument to be the free act and deed of said corporation.

Witness by hand and seal this 26th day of June, 1990.

Gloria Norri Uibel
Notary Public

Notary Public
GLORIA NORRI UIBEL
322 Greenwood Drive
Brigham City, Utah 84302
My Commission Expires
February 15, 1993
State of Utah

STATE OF Utah)
) ss.
COUNTY OF Salt Lake)

On the 29th day of June, 1990, personally appeared before me, John R. Scales and James W. Wilson, to me personally known, who, being by me duly sworn, did say that they are the Vice President and Assistant Secretary of Flying J Exploration and Production Inc., that said instrument was signed in behalf of said corporation by authority of its Board of Directors, and acknowledged said instrument to be the free act and deed of said corporation.

Witness by hand and seal this 29th day of June, 1990.

Vicki L. Dellar
Notary Public

NOTARY PUBLIC
VICKI L. DELLAR
1055 E. Somerset [illegible]
Salt Lake City, Utah [illegible]
My Commission Expires
March 12, [illegible]
STATE OF UTAH

ROUTING AND TRANSMITTAL SLIP

Date 6-19

TO: (Name, office symbol, room number, building, Agency/Post)	Initials	Date
1. Lisha Cordova		
2. DOGM		
3.		
4.		
5.		

	Action		File		Note and Return
	Approval		For Clearance		Per Conversation
	As Requested		For Correction		Prepare Reply
	Circulate		For Your Information		See Me
	Comment		Investigate		Signature
	Coordination		Justify		

REMARKS

CA'S showing Flying J Oil + Gas Inc. as operator. I notified Coralie with Flying J. BIA accepted the name change without issuing a decision. Not sure what they are going to do. We changed our records to reflect Flying J Oil + Gas Inc. effective 3-8-95. Date of letter.

DO NOT use this form as a RECORD of approvals, concurrences, disposals, clearances, and similar actions

FROM: (Name, org. symbol, Agency/Post)	Room No.—Bldg.
Teresa	Phone No.

5041-102

☆ U.S. G.P.O. 1993 342-198/60012

OPTIONAL FORM 41 (Rev. 7-76)
Prescribed by GSA
FPMR (41 CFR) 101-11.206

COMMUNITIZATION AGREEMENTS
UTAH STATE OFFICE

COMM AGREEMENT NO.	CRS NUMB.	OPERATOR	ACRES	SEC DESCRIP.	SEC TWN RNG	EFFECTIVE DATE	COUNTY
96-000111	UTU58815	FLYING J OIL & GAS INC.	640.000000	ALL	8 01S 01W	04/01/73	DUCHESNE
96-000109	UTU58813	FLYING J OIL & GAS INC.	640.000000	ALL	29 01S 01W	11/01/73	DUCHESNE
UT080491-84C729	UTU60873	FLYING J OIL & GAS INC.	640.000000	ALL	15 01S 01W	10/22/84	DUC & UIN
UT080491-84C730	UTU66535	FLYING J OIL & GAS INC.	640.000000	ALL	10 01S 01W	09/26/84	UIN & DUC
VR491-84679C	UTU60980	FLYING J OIL & GAS INC.	480.000000	S2N2,S2	23 01S 01W	05/04/83	UINTAH
VR491-84685C	UTU60991	FLYING J OIL & GAS INC.	640.000000	ALL	16 01S 01W	03/27/84	DUCHESNE
VR491-84691C	UTU61000	FLYING J OIL & GAS INC.	640.000000	ALL	22 01S 01W	12/05/83	DUC & UIN
VR491-84689C	UTU60994	FLYING J OIL & GAS INC.	560.000000	IRR	17 01S 01E	01/26/77	UINTAH
VR491-84683C	UTU60985	FLYING J OIL & GAS INC.	640.000000	ALL	14 01S 01E	02/22/81	UINTAH
VR491-84677C	UTU60970	FLYING J OIL & GAS INC.	640.000000	ALL	36 01S 01W	05/10/79	UINTAH
VR491-84673C	UTU60965	FLYING J OIL & GAS INC.	640.000000	ALL	27 01S 01W	09/17/83	DUCHESNE
VR491-84671C	UTU60953	FLYING J OIL & GAS INC.	640.000000	ALL	21 01S 01W	06/26/83	DUCHESNE
VR491-84670C	UTU60952	FLYING J OIL & GAS INC.	640.000000	ALL	12 01S 01W	05/06/83	UINTAH
UT080149-85C705	UTU60907	FLYING J OIL & GAS INC.	640.000000	ALL	26 01N 01W	02/18/85	UINTAH
UT080149-85C680	UTU60892	FLYING J OIL & GAS INC.	640.000000	ALL	21 01N 01W	09/20/83	DUCHESNE
UT080149-84C712	UTU60886	FLYING J OIL & GAS INC.	480.000000	IRR	29 01S 01E	02/10/82	UINTAH
UT080149-84C713	UTU60887	FLYING J OIL & GAS INC.	640.000000	ALL	28 01N 01W	04/15/82	DUCHESNE
NW-644	UTU60836	FLYING J OIL & GAS INC.	640.000000	ALL	14 01S 04W	08/29/73	DUCHESNE
NRM-696	UTU60813	FLYING J OIL & GAS INC.	640.000000	ALL	17 01S 03W	03/12/74	DUCHESNE
CR-I-157	UTU60782	FLYING J OIL & GAS INC.	440.000000	IRR	30 01S 01E	02/24/82	UINTAH
CR-I-156	UTU60781	FLYING J OIL & GAS INC.	640.000000	ALL	26 01S 04W	02/05/82	DUCHESNE
96-000115	UTU58819	FLYING J OIL & GAS INC.	640.000000	ALL	22 01S 04W	07/23/73	DUCHESNE
9C-000176	UTU58860	FLYING J OIL & GAS INC.	640.000000	ALL	33 01S 01E	08/24/78	UINTAH
NW-616	UTU60833	FLYING J OIL & GAS INC.	640.000000	ALL	28 02S 03W	02/01/73	DUCHESNE
UT080149-86C681	UTU60915	FLYING J OIL & GAS INC.	640.000000	ALL	15 01S 01E	04/03/81	UINTAH
96-000100	UTU58805	FLYING J OIL & GAS INC.	638.500000	ALL	31 01N 01W	01/02/74	DUCHESNE
9C-000122	UTU58826	FLYING J OIL & GAS INC.	640.000000	ALL	32 01N 01W	06/01/74	DUCHESNE
9C-000144	UTU58848	FLYING J OIL & GAS INC.	640.000000	ALL	33 01N 01W	12/02/75	DUCHESNE
9C-000149	UTU58852	FLYING J OIL & GAS INC.	640.000000	ALL	34 01S 01E	11/05/76	UINTAH
9C-000173	UTU58858	FLYING J OIL & GAS INC.	640.000000	ALL	35 01S 01E	05/11/78	UINTAH
9C-000175	UTU58859	FLYING J OIL & GAS INC.	520.000000	E2,E2W2,SWSW	27 01S 01E	06/27/78	UINTAH
9C-000171	UTU58857	FLYING J OIL & GAS INC.	640.000000	ALL	23 01S 01E	01/31/78	UINTAH

RECEIVED
JUN 21 1995
DIV. OF OIL, GAS & MINING

United States Department of the Interior

BUREAU OF INDIAN AFFAIRS
UINTAH AND OURAY AGENCY
FORT DUCHESNE, UTAH 84026
(801) 722-2406 Ext. 51/52/54

IN REPLY REFER TO:

Minerals and Mining

Name Change

RECEIVED JUN 23 1995 DIV. OF OIL, GAS & MINING

JUN. 22 1995

Flying J Oil and Gas, Inc.
Attention: Coralie Timothy
P. O. Box 540180
N. Salt Lake City, UT 84054-0180

Dear Coralie:

As discussed on the telephone regarding the name changes of various Flying J and its subsidiaries, we have reviewed all documents submitted, and hereby approve of the name change for the following companies.

Flying J Uintah Inc.	to	Flying J Oil & Gas Inc.
Flying J Inc.	to	Flying J Uintah Inc.
Flying J Uintah Inc.	to	Flying J, Inc.
Flying J Inc. and Flying J Exploration and Production Inc.	to	Flying J Uintah Inc.

All records will be changed to reflect that Flying J Oil & Gas, Inc. will be operator of the subject wells listed on the attached sheet. With the exception of the following:

CA No. VR49I84-679C	Bradley 1-23A1	* BIA previously aprv. 12/94 see file.
CA No. VR49I-84691C	Fred Bassett 1-22A1	* BIA previously aprv. 12/94 see file.

The sundries submitted indicate a change of operator from Badger Oil Corporation to Flying J Oil and Gas, Inc. This requires the Designation of Operator forms to be completed and approved by this office.

If you have any questions regarding the above, please contact this office.

Sincerely,

Acting Superintendent

cc: Lisha Cordova, Utah State Office
Theresa Thonpson, BLM State Office
Margie Hermann, Vernal BLM District Office
Energy & Minerals, Ute Indian Tribe
Ute Distribution Corporation, Roosevelt, UT

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1- LEC	
2- LWP	7-PL
3- DTS	8-SJ
4- VLC	9-FILE
5- RJF	
6- LWP	

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

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

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 1-2-91)

TO (new operator) FLYING J OIL & GAS INC
(address) PO DRAWER 130
ROOSEVELT UT 84066

phone (801) 722-5166
account no. N 8080

FROM (former operator) FLYING J INC
(address) PO DRAWER 130
ROOSEVELT UT 84066
C/O FLYING J O&G INC
phone (801) 722-5166
account no. N1195

Well(s) (attach additional page if needed):

Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
SEE ATTACHED	013-30738					

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 3-10-95)

Lec 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Rec'd 3-10-95)

N/A 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: _____.

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.

Lec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (6-30-95)

Lwp 6. Cardex file has been updated for each well listed above. 7-12-95

Lwp 7. Well file labels have been updated for each well listed above. 7-12-95

Lec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (6-30-95)

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

✓ 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)

#61020730/80,000 Surety "The North River Ins. Co." (Trust Lands/Bond OK)

✓ 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.

N/A 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 DTS 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.

DTS 2. Copies of documents have been sent to State Lands for changes involving **State leases**. 7-14-95 to Ed Bonner

FILMING

✓ 1. All attachments to this form have been microfilmed. Date: July 21 1995.

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

3/95 Flying J / Coralie Timothy "chg. all wells over to Flying J O&G at the same time if possible". (Wait for C.A. approvals and chg. C.A. & non C.A. wells at same time)

WE71/34-35

FORM 9

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial Number:

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

8. Well Name and Number: Lawson.

9. API Well Number: 43-013-30738

10. Field and Pool, or Wildcat: 55 Bluebell

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

2. Name of Operator: Uinta Oil & Gas, Inc.

3. Address and Telephone Number: P.O. Box 1618, Roosevelt, Utah 84066 801-722-3000

4. Location of Well

Footages: T1S, R1W, Sec. 21, NESW, USM

QQ, Sec., T., R., M.:

County: Duchesne

State: Utah

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

NOTICE OF INTENT
(Submit in Duplicate)

- [ ] Abandon
- [ ] Repair Casing
- [ ] Change of Plans
- [ ] Convert to Injection
- [ ] Fracture Treat or Acidize
- [ ] Multiple Completion
- [ ] New Construction
- [ ] Pull or Alter Casing
- [ ] Recomplete
- [ ] Reperforate
- [ ] Vent or Flare
- [ ] Water Shut-Off
- [X] Other Change of Operator

Approximate date work will start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

- [ ] Abandon
- [ ] Repair Casing
- [ ] Change of Plans
- [ ] Convert to Injection
- [ ] Fracture Treat or Acidize
- [ ] Other _____
- [ ] New Construction
- [ ] Pull or Alter Casing
- [ ] Reperforate
- [ ] Vent or Flare
- [ ] Water Shut-Off

Date of work completion _____

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

Uinta Oil & Gas, Inc. requests a change of operator to Uinta Oil & Gas, Inc. from Flying J Oil & Gas, Inc. Effective January 1, 1996.

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: June 26, 1996
BY: Lisha Cordova

RECEIVED
JUN 25 1996
DIV. OF OIL, GAS & MINING

13. Name & Signature: Kelly Phillips Kelly Phillips Title: Secretary Date: 06/24/96

(This space for State use only)

(4\94)

(See Instructions on Reverse Side)

EXHIBIT A PART I
LEASE SCHEDULE

LEASE SCHEDULE

EXHIBIT "A" PAGE

STATE OF UTAH

COUNTY OF DUCHESNE

)11 GW PETROLEUM, INC. (WESTERN) 6/23/89 UTA04 BLUEBELL - ALTAMONT

06198 LAWSON #1-21A1
~~06416 DYE HALL 2-21A1 (NON-OP)~~

LEASE NUMBER	LESSOR	LESSEE	DATE	DESCRIPTION	RECORDED BOOK	RECORDED PAGE
0012 A	MILLER & VIELE	FLYING DIAMOND LAND	05/09/69	TOWNSHIP 1 SOUTH, RANGE 1 WEST, USM, DUCHESNE CO. SECTION 21: N/2SW/4, SW/4NW/4	83	109-10
0130	LAWSON, QUIVINGTON D., ET UX	FLYING DIAMOND LAND	03/24/70	TOWNSHIP 1 SOUTH, RANGE 1 WEST, USM, DUCHESNE CO. SECTION 21: NE/4NW/4	86	247-48
0132 A	LAWSON, EVERETT, ET UX	FLYING DIAMOND LAND	03/24/70	TOWNSHIP 1 SOUTH, RANGE 1 WEST, USM, DUCHESNE CO. SECTION 21: SW/4NW/4, N/2SW/4	86MR	197-98
0132 A	LAWSON, EVERETT, ET UX	FLYING DIAMOND LAND	03/24/70	TOWNSHIP 1 SOUTH, RANGE 1 WEST, USM, DUCHESNE CO. SECTION 21: N/2SW/4SW/4	86MR	197-98
0132 A	LAWSON, EVERETT, ET UX	FLYING DIAMOND LAND	03/24/70	TOWNSHIP 1 SOUTH, RANGE 1 WEST, USM, DUCHESNE CO. SECTION 21: S/2SW/4SW/4	86MR	197-98
0132 B	HARMSTON, CORA	FLYING DIAMOND LAND	05/14/69	TOWNSHIP 1 SOUTH, RANGE 1 WEST, USM, DUCHESNE CO. SECTION 21: N/2SW/4, SW/4NW/4	82	241-42
0132 C	LAWSON, DOUGLAS B., ET AL	FLYING DIAMOND LAND	03/24/70	TOWNSHIP 1 SOUTH, RANGE 1 WEST, USM, DUCHESNE CO. SECTION 21: SW/4NW/4, N/2SW/4	86MR	239-40
0132 C	LAWSON, DOUGLAS B., ET AL	FLYING DIAMOND LAND	03/24/70	TOWNSHIP 1 SOUTH, RANGE 1 WEST, USM, DUCHESNE CO. SECTION 21: N/2SW/4SW/4	86MR	239-40
0132 C	LAWSON, DOUGLAS B., ET AL	FLYING DIAMOND LAND	03/24/70	TOWNSHIP 1 SOUTH, RANGE 1 WEST, USM, DUCHESNE CO. SECTION 21: S/2SW/4SW/4	86MR	239-40
0132 D	LAWSON, MAX, ET UX	FLYING DIAMOND LAND	03/24/70	TOWNSHIP 1 SOUTH, RANGE 1 WEST, USM, DUCHESNE CO. SECTION 21: SW/4NW/4, N/2SW/4	86MR	237-38
0132 D	LAWSON, MAX, ET UX	FLYING DIAMOND LAND	03/24/70	TOWNSHIP 1 SOUTH, RANGE 1 WEST, USM, DUCHESNE CO. SECTION 21: N/2SW/4SW/4	86MR	237-38
0132 D	LAWSON, MAX, ET UX	FLYING DIAMOND LAND	03/24/70	TOWNSHIP 1 SOUTH, RANGE 1 WEST, USM, DUCHESNE CO. SECTION 21: S/2SW/4SW/4	86MR	237-38

- - CONTINUED - -

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LEASE SCHEDULE

EXHIBIT "A" PAGE

STATE OF UTAH

COUNTY OF DUCHESNE

)11 GW PETROLEUM, INC. (WESTERN) 6/23/89 UTA04 BLUEBELL - ALTAMONT

06198 LAWSON #1-21A1
~~06416 DYE HALL 2-21A1 (NON-OP)~~

LEASE NUMBER	LESSOR	LESSEE	DATE	DESCRIPTION	RECORDED BOOK	RECORDED PAGE
.0132 E	YACK, KATHRYN	FLYING DIAMOND LAND	03/24/70	TOWNSHIP 1 SOUTH, RANGE 1 WEST, USM, DUCHESNE CO. SECTION 21: SW/4NW/4, N/2SW/4	86MR	458-59
.0132 E	YACK, KATHRYN	FLYING DIAMOND LAND	03/24/70	TOWNSHIP 1 SOUTH, RANGE 1 WEST, USM, DUCHESNE CO. SECTION 21: N/WSW/4SW/4	86MR	458-59
.0132 E	YACK, KATHRYN	FLYING DIAMOND LAND	03/24/70	TOWNSHIP 1 SOUTH, RANGE 1 WEST, USM, DUCHESNE CO. SECTION 21: S/2SW/4SW/4	86MR	458-59
.0141	NELSON, MARY	FLYING DIAMOND LAND	03/26/70	TOWNSHIP 1 SOUTH, RANGE 1 WEST, USM, DUCHESNE CO. SECTION 21: SE/4NW/4	86MR	241-42
0883KE	CALLISTER, WILLIAM D & GENEVIE	BOW VALLEY PETROLEUM	10/27/81	TOWNSHIP 1 SOUTH, RANGE 1 WEST, U.S.M. SECTION 21: N/2SW/4, SW/4NW/4	166	340
.0883KF	MELVILLE, VERNA B.	BOW VALLEY PETROLEUM	10/27/81	TOWNSHIP 1 SOUTH, RANGE 1 WEST, U.S.M. SECTION 21: N/2SW/4, SW/4NW/4	166	342

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EXHIBIT A PART II
WELL LIST

WELL	W.I.	N.R.I
Lawson 1-21A1	37.5%*	*

* Assignor makes no representation or warranty whatsoever concerning the accuracy of these figures.

ASSIGNMENT AND BILL OF SALE

RECEIVED
JUN 25 1996
DIV. OF OIL, GAS & MINING

THIS ASSIGNMENT AND BILL OF SALE (hereinafter referred to as the "Assignment"), is made and entered into this 14th day of June, 1996 but effective the 1st day of January 1, 1996 (hereinafter referred to as the "Effective Date") from **FLYING J OIL & GAS INC.**, a Utah corporation with its principal office at 333 West Center Street, North Salt Lake, Utah 85045, (hereinafter referred to as "Assignor") to **UINTA OIL & GAS ~~INC.~~**, a Utah corporation with its principal office at 3954 East 200 North East Highway 40, Ballard, Utah 84066, (hereinafter referred to as "Assignee"):

For TEN dollars ($10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged by ASSIGNOR, ASSIGNOR hereby assigns and transfers to ASSIGNEE all of its right, title and interest in and to the following properties and assets:

(a) All of Assignor's right, title and interest in and to the leasehold estates created by the leases described in Exhibit A Part I, (hereinafter referred to as the "Leases") together with any agreements, leases, rights-of-way, easements, licenses and permits incident thereto;

(b) All of Assignor's right, title and interest in and to the wells located on the Leases described in Exhibit A Part II, (hereinafter referred to as the "Wells"), together with any and all interest of Seller in and to such property and in and to any agreements, including, without limitation, gas purchase agreements, crude oil purchase agreements, farmin and farmout agreements, operating agreements and pooling agreements, lease, rights-of-way, easements, licenses and permits incident thereto; and

(c) All of Assignor's right, title and interest in and to the real and personal property, fixtures, improvements and buildings now located on the lands burdened by the Leases or lands pooled therewith (hereinafter referred to as the "Lands"), and all contract rights, rights of substitution and subrogation in and to any rights and actions of warranty which Assignor has or may have with respect to the Interests.

All of the above described rights, titles, interests and properties are collectively referred to hereinafter as the "Interests."

TO HAVE AND TO HOLD, the Interests unto Assignee, its successors and assigns subject to the terms, conditions, exceptions and other provisions herein stated.

1. **Disclaimer of Warranty of Title; Subrogation.** This Assignment is made without warranty of title, express, implied, or statutory, and without recourse, even as to the return of the purchase price or other consideration, but with full substitution and subrogation of Assignee, to the extent assignable, in and to all covenants and warranties of Assignor's predecessors in title and with full subrogation of all rights accruing under the applicable statutes of limitation or prescription under the laws of the State of Utah and all rights of actions of warranty against all former owners of the Interests. **Any covenants or warranties implied by statute or law by the use of the words "transfer," "convey," "bargain" or "assign" or other similar words used in this Assignment are hereby expressly disclaimed, waived and negated.**

2. **Further Disclaimer of Warranties; Independent Investigation.** Assignee acknowledges that in making the decision to accept this Assignment, Assignee has relied solely upon its own independent investigation of the Interests. Accordingly, Assignee acknowledges that Assignor has not made and Assignor hereby expressly disclaims and negates any representation or warranty express or implied at common law, by statute or otherwise relating to (1) the condition of the Interests (including, but not limited to, any implied or express warranty of merchantability or fitness for a particular purpose or of conformity to models or samples of materials) and (2) any information, data or other materials (written or oral) furnished to Assignee by or on behalf of Assignor (including, but not limited to, information, data or other materials regarding the existence or extent of oil, gas or other mineral reserves, the recoverability of or the cost of recovering such reserves, the value of such reserves, any product pricing assumption, present or past production rates, the environmental condition of the Interests, including but not limited to the presence of naturally occurring radioactive material ("NORM"), and the ability to sell oil or gas production). Prior to the date of this Assignment, Assignee has been afforded the opportunity to examine all materials pertinent to the Interests in Assignor's offices located at 333 West Center Street, North Salt Lake, Utah 84054, has been given access to other information in Assignor's possession and has had the opportunity to conduct such inspections of the Interests as it has deemed advisable. Assignee acknowledges that Assignor has made no representations or

warranties as to the accuracy of such information or as to the condition of the Interests, and, in accepting this Assignment, Assignee hereby accepts the Interests "AS IS AND WITH ALL FAULTS". The description and information contained in this Assignment and in any exhibit hereto or separately provided to Assignee by Assignor are provided solely for Assignee's convenience and no representation or warranty is made with respect to the accuracy or complete nature thereof and Assignee's reliance thereon shall be at Assignee's sole risk and liability.

3. **Indemnification, environmental liability and representations.**

(a) To the fullest extent permitted by law, Assignee expressly covenants and agrees to fully protect, defend, indemnify and hold Assignor, its officers, directors, employees, subsidiaries, affiliates (and their officers, directors and employees), its predecessors, successors and assigns, free and harmless from and against each and every claim for damages, liability, demand, fine, cause of action or loss of whatever nature, including costs and attorney's fees, which may be made or asserted by Assignee, its employees, agents, servants, contractors, successors and assigns, Assignor's employees, agents, servants, contractors, successors, or assigns, or by any third party including any governmental authority, on account of personal injury, death, property or environmental damage or loss of any kind arising out of or in connection with: (1) obligations specifically assumed by Assignee in this agreement; (2) damage to or loss of property or natural resources or injury to or death of any persons no matter when it occurs or what the cause including, without limitation as to whether or not attributable in whole or in part to a condition(s) of or upon the Interests that existed before the Effective Date; or (3) any conditions(s) of or upon the Interests, including without limitation any condition which may be considered to be a nuisance and/or which affects or threatens to affect the environment, whether or not it existed prior to the Effective Date. It is understood that the claims, suits and damages referred to above include, but are not limited to actions brought pursuant to the Federal Comprehensive Environmental Response Compensation and Liability Act (CERCLA), 42 U.S.C. § 9601, *et seq.*; Resource Conservation and Recovery Act (RCRA), 42 U.S.C. § 6901, *et seq.*; Clean Water Act, 33 U.S.C. § 1251, *et seq.*; Safe Drinking Water Act, 42 U.S.C. § 300f, *et seq.*; Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), 7 U.S.C. § 136, *et seq.*; Toxic Substances Control Act (TSCA), 15 U.S.C. § 2601, *et seq.*; or any other federal, state or local environmental laws or regulation. Assignee acknowledges that assumption of these obligations is a material aspect of the consideration for this transfer.

(b) Assignee agrees that it shall timely perform and discharge all duties and obligations of the owner of the Interests, including but not limited to restoration of the surface, environmental and pollution clean up, plugging and abandonment of any and all existing and future wells and platform abandonment and removal. Assignor shall incur no liability for Assignee's failure to properly perform and discharge such duties and obligations. Assignee shall fully protect, indemnify, defend, and hold Assignor, it officers, agents and/or employees harmless from and against any and all claims for pollution and/or environmental damage of any kind, any fines or penalties assessed on account of such damage, caused by, arising out of, or in any way incidental to ownership or operations conducted on the Interests regardless of whether or not arising from, incidental to or the result of Assignor's negligence or fault, or whether or not any liability is imposed upon Assignor as a result of common law or local, state or federal law, statute, rule or regulation or theory of strict liability of Assignor, its officers, agents or employees.

(c) Assignor shall have the right at all times to participate in the preparation for and conducting of any hearing or trial related to this indemnification, as well as the right to appear on its own behalf at any such hearing or trial. Any such participation or appearance by Assignor shall be at its sole cost and expense.

4. **Gas balancing.** Assignor and Assignee believe but do not warrant that the wells located on the Lands are currently in balance as to gas production as of the Effective Date. It is understood and agreed that if overproduction or underproduction is identified at a later date, then Assignee hereby accepts, assumes and agrees to bear any and all such imbalances without cost, expense or liability to Assignor. Assignee understands that the existence of a gas imbalance in the form of overproduction may result in a cash payment by Assignee or in Assignee's inability to further produce and sell gas. Further, to the extent any of the wells may be underproduced, Assignor does not warrant that any rights of makeup or cash payment exist with respect to such underproduction. WITHOUT LIMITATION OF PARAGRAPH 4 (INDEMNIFICATION, ENVIRONMENTAL LIABILITY AND REPRESENTATIONS) ABOVE, ASSIGNEE HEREBY SPECIFICALLY RELEASES ASSIGNOR FROM, AND AGREES TO FULLY DEFEND, PROTECT, INDEMNIFY AND HOLD HARMLESS ASSIGNOR, ITS EMPLOYEES AND AGENTS FROM AND AGAINST, EACH AND EVERY CLAIM, DEMAND, PENALTY, FINE, LIEN, JUDGMENT, ACTION, CAUSE OF ACTION, OR LAWSUIT, AND ANY LIABILITY, COST, EXPENSE, DAMAGE OR LOSS, INCLUDING

COURT COSTS AND ATTORNEYS' FEES, THAT MAY BE ASSERTED BY ANY THIRD PARTY, INCLUDING ASSIGNEE'S EMPLOYEES AND AGENTS, RELATING TO GAS IMBALANCES RESPECTING THE WELLS CONVEYED WHETHER ARISING UNDER THE TERMS OF ANY GAS BALANCING OR OTHER SIMILAR AGREEMENT, BY OPERATION OF LAW OR OTHERWISE. Assignee represents that it has independently investigated, to its satisfaction, the gas balancing account associated with the Interests.

5. **Assumption of contract and lease obligations.** Assignee hereby assumes the obligations of, and agrees to perform all of the terms and the express and implied conditions and covenants of all contracts and of the Leases including, without limitation, all authorizations for expenditure approved by Assignor prior to the Closing. This Assignment is subject to any and all agreements affecting the Interests whether recorded or unrecorded, if and when applicable.

6. **Responsibility to plug and abandon.** Assignee agrees to accept full responsibility to plug and abandon all unplugged wells and associated structures and equipment hereby assigned, and liability for any and all previously plugged wells located on the Lands.

As used herein, the term "plug and abandon" means all plugging, replugging, abandonment, removal, disposal or restoration associated with the Interests, including, but not limited to, all plugging and abandonment, removal, surface restoration, site clearance and disposal of the wells, structures and equipment located on or associated with the Interests, the removal or capping and burying of all associated flowlines, the restoration of the surface in accordance with all applicable requirements of the statutes of the State of Utah or the Bureau of Land Management and with all the rules and regulations of any oil and gas regulatory body, and any applicable local, tribal or federal laws, rules or regulations, in effect at the time any well is plugged or replugged, or the terms and conditions of the Leases or any contracts, whichever is more stringent, site clearance, as required by all applicable local, state, tribal or federal laws or regulations and any disposal of related waste materials, including NORM and asbestos, and shall include such wells, structures, and equipment associated with any of the Lands, whether drilled or placed on said Lands prior to or after the Closing. Without limitation of the foregoing, if a Lease conveyed hereby expires by its own terms, Assignee shall plug and abandon all remaining wells, structures and equipment associated with such Lease. As to any fee interest conveyed hereby, Assignee's obligation to plug and abandon all remaining wells, structures and equipment shall arise when the respective well ceases to produce. WITHOUT LIMITATION OF PARAGRAPH 4 (INDEMNIFICATION, ENVIRONMENTAL LIABILITY AND REPRESENTATIONS) ABOVE, ASSIGNEE SPECIFICALLY AGREES TO FULLY DEFEND, PROTECT, INDEMNIFY, AND HOLD HARMLESS, ASSIGNOR, ITS EMPLOYEES AND AGENTS, FROM AND AGAINST EACH AND EVERY CLAIM, DEMAND, PENALTY, FINE LIEN, JUDGMENT, ACTION, CAUSE OF ACTION, OR LAWSUIT, AND ANY LIABILITY, COST, EXPENSE, DAMAGE OR LOSS, INCLUDING COURT COSTS AND ATTORNEYS' FEES, THAT MAY BE ASSERTED BY ANY THIRD PARTY INCLUDING ASSIGNEE'S EMPLOYEES AND AGENTS, OR THE STATE OF UTAH OR THE UNITED STATES OF AMERICA (WHICHEVER IS APPLICABLE), WHETHER DIRECT OR INDIRECT, KNOWN OR UNKNOWN, FORESEEN OR UNFORESEEN ARISING FROM ASSIGNEE'S OBLIGATION TO PLUG AND ABANDON OR ASSIGNEE'S FAILURE TO PERFORM SUCH OBLIGATIONS.

7. **Successors and Assigns.** Except as otherwise expressly provided herein, this Assignment shall bind and inure to the benefit of Assignor and Assignee and their respective successors and assigns.

8. **Governing Law.** This Assignment shall be governed by and interpreted in accordance with the laws of the State of Utah, without regard to any conflicts of law rule that would direct application of the laws of another jurisdiction.

9. **Exhibits.** All Exhibits attached hereto are hereby made a part hereof and incorporated herein by this reference. References in such Exhibits to instruments on file in the public records are made for all purposes. Unless provided otherwise, all recording references in such Exhibits are to the appropriate records of the counties in which the Interests are located.

10. **Captions.** The captions in this Assignment are for convenience only and shall not be considered a part of or affect the construction or interpretation of any provision of this Assignment.

11. Counterparts. This Assignment may be executed in one or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

12. Governmental Assignments. Separate assignments of certain parts of the Interests may be executed on officially approved forms by Assignor to Assignee in sufficient counterparts to satisfy applicable statutory and regulatory requirements. Those assignments shall be deemed to contain all of the exceptions, reservations, rights, titles, power and privileges set forth herein as fully as though they were set forth in each such assignment. The interests conveyed by such separate assignments are the same, and not in addition to, the Interests conveyed herein.

EXECUTED this 14th day of June, 1996, to be effective for all purposes as of January 1, 1996.

ASSIGNOR:	ASSIGNEE:
FLYING J OIL & GAS INC.	UINTA OIL & GAS, INC.
By: John R. Scales	By: Craig Phillips
Title: Sr. Vice President	Title: President

STATE OF UTAH)
)
COUNTY OF DAVIS)

On this 14th day of June, 1996, before me personally appeared John R. Scales, personally known to me (or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

NOTARY PUBLIC
CHRIS J. MALAN
740 Northridge Dr.
Bountiful, Utah 84010
My Commission Expires
April 18, 1998
STATE OF UTAH

Notary Public

STATE OF UTAH)
)
COUNTY OF UINTAH)

On this 18TH day of June, 1996, before me personally appeared Craig Phillips, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

SUSAN RAMONA-EKUNG
Notary Public
STATE OF UTAH
My Comm. Expires OCT 29, 1998
RT 2 BOX 2773 ROOSEVELT UT 84066

Notary Public

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)

UTAH DIVISION OF OIL, GAS AND MINING
FACSIMILE COVER SHEET

DATE: JUNE 26, 1996

FAX # 296-7888

ATTN: CHRIS MALAN

COMPANY: FLYING J OIL & GAS INC

FROM: LISHA CORDOVA

DEPARTMENT: OIL & GAS

NUMBER OF PAGES BEING SENT (INCLUDING THIS ONE): 2

If you do not receive all of the pages, or if they are illegible, please call (801) 538-5340.

We are sending from a Sharp facsimile machine. Our telecopier number is (801) 359-3940.

MESSAGES:

* Copy of aprv.

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

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

Routing:	
1-LEC	6-LEC
~~2-GLH~~	7-KDR
3-DTS/TS	8-SJ
4-VLD	9-FILE
5-RJF	

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: 1-1-96

TO: (new operator) UINTA OIL & GAS
(address) PO BOX 1618
ROOSEVELT UT 84066

Phone: (801)722-3000
Account no. N2945

FROM: (old operator) FLYING J OIL & GAS INC
(address) PO DRAWER 130
ROOSEVELT UT 84066

Phone: (801)722-5166
Account no. N8080

WELL(S) attach additional page if needed: *C.A. VR491-84671C

Name:	API:	Entity:	S	T	R	Lease:
*LAWSON 1-21A1/GR-WS	43-013-30738	935	21	1S	1W	FEE

OPERATOR CHANGE DOCUMENTATION

Lec 1. (r649-8-10) Sundry or other legal documentation has been received from the **FORMER** operator (attach to this form). (Rec'd 6-25-96)

Lec 2. (r649-8-10) Sundry or other legal documentation has been received from the **NEW** operator (Attach to this form). (Rec'd 6-25-96)

N/A 3. The **Department of Commerce** has been contacted if the new operator above is not currently operating any wells in Utah. Is the company **registered with the state?** (yes/no) _____ If yes, show company file number: _____.

N/A 4. **FOR INDIAN AND FEDERAL WELLS ONLY.** The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of **Federal and Indian** well operator changes should ordinarily take place prior to the division's approval, and before the completion of **steps 5 through 9** below.

Lec 5. Changes have been entered in the **Oil and Gas Information System** (3270) for each well listed above. (6-26-96)

Lec 6. **Cardex** file has been updated for each well listed above. (6-26-96)

Lec 7. Well **file labels** have been updated for each well listed above. (6-26-96)

Lec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" **memo** for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc. (6-26-96)

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. (6-26-96)

c:\dons\wpdocs\forms\operchng

- OVER -

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

ENTITY REVIEW

Yes 1. (r649-8-7) **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. Trust Lands, Sovereign Lands, Tax Commission, etc., have been **notified** through normal procedures of entity changes.

BOND VERIFICATION - (FEE WELLS ONLY) *IDLOC 7065 ($80,000) Zions First Nat'l Bank

Yes 1. (r649-3-1) 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 operator's bond files.

Yes 3. The **FORMER** operator has requested a release of liability from their bond (yes/no) _____, as of today's date June 26, 1996. If yes, division response was made to this request by letter dated _____. *Via telephone only, no letter necessary per Flying J.

LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY

N/A 1. Copies of documents have been sent on _____ to _____ at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.
DTS 6/27/96

FILMING

KDR 1. All attachments to this form have been **microfilmed**. Today's date: July 16, 1996

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** are now being filed in the Operator Change file.

COMMENTS

*960626 DOGM / C.A. Operator chg. in progress; per Admin. ok to accept "Uinta O&G" as operator. C.A. chg. should be forthcoming.

(Dye-Hall 2-21A1 / 43-013-31163 from Quinex to Uinta eff. 4-1-91; same C.A.)

Form 9

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

SUNDRY NOTICE 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 -- for such proposals

6. Lease Designation and Serial Number	
7. Indian Allottee or Tribe Name	Ute Indian Tribe
8. Unit or Communitization Agreement	
9. Wel Name and Number	Lawson 1-21A1
10. API Well Number	43-013-30738
11. Field and Pool, or Exploratory Area	65 Bluebell

1. Title of Well
[X] Oil Well [ ] Gas Well [ ] Other

2. Name of Operator
Mountain Oil, Inc.

3. Address and Telephone No.
PO Box 1574, Roosevelt, UT 84066

4. Telephone Number
435-722-2992

5. Location of Well
Footage

County: Duchesne

QQ, Sec. T.,R.,M.: T1S, R1W, Section 21,NESW, USM

State: Utah

12. CHECK APPROPRIATE BOX(s) 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	[ ] Recompletion
[ ] Conversion to Injection	[ ] Shoot or Acidize	[ ] Conversion to Injection	[ ] Shoot or Acidize
[ ] Fracture Test	[ ] Vent or Flare	[ ] Fracture Test	[ ] Vent or Flare
[ ] Multiple Completion	[ ] Water Shut-Off	[ ] Multiple Completion	[ ] Water Shut-Off
[X] Other Change of Operator		[ ] 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

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 location and measured and true vertical depths for all markers and zones pertinent to this work.

Self Certification Statement:

Please be advised that Mountain Oil, Inc., PO Box 1574, Roosevelt, UT 84066 is considered to be the new operator of the Lawson 1-21A1 Well, and is responsible under the terms and conditions of the lease of the operations conducted upon the associated leased lands. Please release ERHC/ Bass American Petroleum Company's bond # 7618020, as bond coverage will be provided under Mountain Oil, Inc.'s bond # 00762, this will be effective September 1, 1999. Send all communications regarding this lease to Mountain Oil, Inc., PO Box 1574, Roosevelt, UT 84066.

Contact Person: Julie Jensen

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

Signed Julie Jensen Title Agent Date 9/8/00

Julie Jensen

(State Use Only)

(6/90)

Form 9

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

6. Lease Designation and Serial Number	
7. Indian Allottee or Tribe Name	Ute Indian Tribe
8. Unit or Communitization Agreement	
9. Wel Name and Number	Lawson 1-21A1
10. API Well Number	43-013-30738
11. Field and Pool, or Exploratory Area	65 Bluebell

SUNDRY NOTICE 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 -- for such proposals

1. Title of Well
[X] Oil Well [ ] Gas Well [ ] Other

2. Name of Operator
ERHC/ Bass American Petroleum Company

3. Address and Telephone No.
PO Box 1574, Roosevelt, UT 84066

4. Telephone Number
435-722-2992

5. Location of Well
Footage

County: Duchesne

QQ, Sec. T.,R.,M.: T1S, R1W, Section 21, NESW, USM

State: Utah

12. CHECK APPROPRIATE BOX(s) 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	[ ] Recompletion
[ ] Conversion to Injection	[ ] Shoot or Acidize	[ ] Conversion to Injection	[ ] Shoot or Acidize
[ ] Fracture Test	[ ] Vent or Flare	[ ] Fracture Test	[ ] Vent or Flare
[ ] Multiple Completion	[ ] Water Shut-Off	[ ] Multiple Completion	[ ] Water Shut-Off
[X] Other Change of Operator		[ ] 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	

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 location and measured and true vertical depths for all markers and zones pertinent to this work.

Please note effective September 1, 1999, ERHC/ Bass American Petroleum Company relinquishes operatorship of the Lawson 1-21A1 well. Please release ERHC/ Bass American Petroleum Company's bond # 7(Please be advised that Mountain Oil, Inc., PO Box 1574, Roosevelt, UT 84066 is considered to PO Box 1574, Roosevelt, UT 84066. Under Mountain Oil, Inc.'s bond # 00762

Contact Person: Julie Jensen

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

Signed Julie Jensen Title Agent Date

Julie Jensen

(State Use Only)

(8/90)

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING		
1. GLH		4-KAS ✓
2. CDW ✓		5-SJ
3. JLT		6-FILE

Enter date after each listed item is completed

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

Operator Name Change (Only) Merger

The operator of the well(s) listed below has changed, effective: **9/1/1999**

FROM: (Old Operator):	**TO:** (New Operator):
ERHC/BASS AMERICAN PETROLEUM COMPANY	MOUNTAIN OIL INC
Address: P. O. BOX 1574	Address: P. O. BOX 1574
ROOSEVELT, UT 84066	ROOSEVELT, UT
Phone: 1-(435)-722-2992	Phone: 1-(435)-722-2992
Account No. N8210	Account No. N5495

CA No. **Unit:**

WELL(S)

NAME	API NO.	ENTITY NO.	SEC. TWN RNG	LEASE TYPE	WELL TYPE	WELL STATUS
DYE HALL 1-21A1	43-013-31163	10713	21-01S-01W	FEE	OW	P
LAWSON 1-21A1	43-013-30738	935	21-01S-01W	FEE	OW	S
NIELSON 1-20B1	43-013-30740	673	20-02S-01W	FEE	OW	P
MYRIN RANCH # 1	43-013-30176	1091	20-02S-03W	FEE	OW	P
WILKINS 1-24A5	43-013-30320	205	24-01S-05W	FEE	OW	S
WALKER 2-24A5	43-013-31085	218	24-01S-05W	FEE	OW	S
JOSIE 1-3B5	43-013-30273	215	03-02S-05W	FEE	OW	S
JOSIE 1A-3B5	43-013-30677	216	03-02S-05W	FEE	OW	S
FAUSETT 1-26A1E	43-047-30821	870	26-01S-01E	FEE	OW	P

OPERATOR CHANGES DOCUMENTATION

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 03/05/2001
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 03/05/2001
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database on:** 03/07/2001
4. Is the new operator registered in the State of Utah: YES Business Number: 3-301306-0
5. If **NO**, the operator was contacted contacted on: N/A
6. **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: N/A
7. **Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: N/A

8. **Federal and Indian Communization Agreements ("CA"):** The BLM or the BIA has approved the operator change for all wells listed involved in a CA on: N/A

9. **Underground Injection Control ("UIC") Prog:** 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:** 03/07/2001
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 03/07/2001
3. Bond information entered in RBDMS on: 03/07/2001
4. Fee wells attached to bond in RBDMS on: 03/07/2001

STATE BOND VERIFICATION:

1. State well(s) covered by Bond No.: N/A

FEE WELLS - BOND VERIFICATION/LEASE INTEREST OWNER NOTIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed has furnished a bond No: LOC '00762
2. The **FORMER** operator has requested a release of liability from their bond on: 09/08/00
   The Division sent response by letter on: 03/08/2001
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: 03/08/2001

FILMING:

1. All attachments to this form have been **MICROFILMED** on: 3-26-01

FILING:

1. **ORIGINALS/COPIES** of all attachments pertaining to each individual well have been filled in each well file on: _____

COMMENTS:

43-013-30738
T. 1S R. 1W S. 21

State of Utah

Department of
Natural Resources

Division of
Oil, Gas & Mining

ROBERT L. MORGAN
Executive Director

LOWELL P. BRAXTON
Division Director

MICHAEL O. LEAVITT
Governor

OLENE S. WALKER
Lieutenant Governor

April 16, 2004

CERTIFIED MAIL NO. 7002 0003 8602 6273

Bill Phillips
Mountain Oil, Inc.
P.O. Box 1574
Roosevelt, Utah 84066

Re: Extended Shut-in and Temporary Abandoned Well Requirements for Fee or State Leases.

Dear Mr. Phillips:

Mountain Oil Inc., as of April 2004, has six (6) Fee Lease Wells and one (1) State Lease Well (see attachment A) that are currently in non-compliance for extended shut-in or temporary abandonment status. Wells SI/TA beyond twelve (12) consecutive months requires filing a Sundry Notice (R649-3-36-1). Wells with five (5) years non-activity or non-productivity shall be plugged, unless the Division grants approval for extended shut-in time upon a showing of good cause by the operator (649-3-36-1.3.3). For extended SI/TA consideration the operator shall provide the Utah Division of Oil, Gas & Mining with the following:

1. Reasons for SI/TA of the well (R649-3-36-1.1).
2. The length of time the well is expected to be SI/TA (R649-3-36-1.2), and
3. An explanation and supporting data if necessary, for showing the well has integrity, meaning that the casing, cement, equipment condition, static fluid level, pressure, existence or absence of Underground Sources of Drinking Water and other factors do not make the well a risk to public health and safety or the environment (R649-3-36-1.3).

Submitting the information suggested below may help show well integrity and may help qualify your well for extended SI/TA. **Note: As of July 1, 2003, wells in violation of the SI/TA rule R649-3-36 may be subject to full cost bonding (R649-3-1-4.2, 4.3).**

1. Wellbore diagram, and
2. Copy of recent casing pressure test, and
3. Current pressures on the wellbore (tubing pressure, casing pressure, and casing/casing annuli pressure) showing wellbore has integrity, and
4. Fluid level in the wellbore, and
5. An explanation of how the submitted information proves integrity.

If the required information is not received within 30 days of the date of this notice, further actions may be initiated. If you have any questions concerning this matter, please contact me at (801) 538-5281.

Sincerely,

Dustin K. Doucet
Petroleum Engineer

jc
cc: John Baza
Well File
SITLA

Mountain Oil, Inc.

	Well Name	API	Lease Type	Years Inactive
1	Walker 2-24A5	43-013-31085	Fee	11 Years 0 Months
2	Wesley Bastian Fee 1	43-013-10496	Fee	10 Years 10 Months
3	Dustin 1	43-013-30122	Fee	10 Years 6 Months
4	V Miles 1	43-013-30275	Fee	8 Years 5 Months
5	A Rust 2	43-013-30290	Fee	3 Years 9 Months
6	Lawson 1-21A1	43-013-30738	Fee	3 Years 8 months

1	Monada State 1	43-047-30080	State	10 Years 10 Months

Attachment A

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

FORM 9

SUNDRY NOTICE 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:	VR49184671 Fee
6. IF INIDAN, ALLOTTEE OR TRIBE NAME:	UTE INDIAN TRIBE
7. UNIT or CA AGREEMENT NAME:	VR49184671
8. WELL NAME and NUMBER	LAWSON 1-21A1
9. API NUMBER:	43-013-30738
10. FIELD AND POOL, OR WILDCAT	65 BLUEBELL

1. TYPE OF WELLS
[X] Oil Well [ ] Gas Well [ ] Other

2. NAME OF OPERATOR
MOUNTAIN OIL AND GAS, INC.

3. ADDRESS OF OPERATOR
P.O. BOX 1574, ROOSEVELT, UT 84066

PHONE NUMBER
435-722-2992

4. LOCATION OF WELLS

TOWNSHIP 1S RANGE 1W SECTION 21 NESW USBM

COUNTY: DUCHESNE

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) Approximate date work will start	[ ] ACIDIZE	[ ] DEEPEN	[ ] REPERFORATE CURRENT FORMATION
	[ ] 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) Date of work completion:	[ ] CHANGE WELL NAME	[ ] PLUG BACK	[ ] WATER DISPOSAL
	[ ] CHANGE WELL STATUS	[ ] PRODUCTION (START/RESUME)	[ ] WATER SHUT-OFF
	[ ] COMMINGLE PRODUCING FORMATIONS	[ ] RECLAMATION OF WELL SITE	[X] 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, operation of this well was taken over by:
MOUNTAIN OIL AND GAS, INC.
P.O. BOX 1574
ROOSEVELT, UT 84066
N2485

The previous operator was:
MOUNTAIN OIL, INC.
3191 N CANYON ROAD
PROVO, UT 84604
N5495

JOSEPH OLLIVIER
PRESIDENT, MOUNTAIN OIL, INC.

Effective March 1, 2003 Mountain Oil & Gas, Inc. is responsible under the terms and conditions of the leases for operations conducted on the leased lands or a portion thereof under ~~Mountain Oil, Inc.'s Utah Letter of Credit #001856 issued by Bonneville Ba~~nk

NAME (PLEASE PRINT) Craig Phillips

TITLE President, Mountain Oil and Gas, Inc.

SIGNATURE

DATE July 21, 2004

(This space for State use only)

APPROVED 12/21/04
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

RECEIVED
SEP 08 2004
DIV. OF OIL, GAS & MINING

(5/2000)

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: **3/1/2003**

FROM: (Old Operator):	**TO:** (New Operator):
N5495-Mountain Oil, Inc	N2485-Mountain Oil and Gas, Inc.
3191 N Canyon Rd	PO Box 1574
Provo, UT 84604	Roosevelt, UT 84066
Phone: 1-(801) 373-3990	Phone: 1-(435) 722-2992

CA No. **Unit:**

WELL(S)

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
LAWSON 1-21A1	21	010S	010W	4301330738	935	Fee	OW	P
DYE-HALL 2-21A1	21	010S	010W	4301331163	10713	Fee	OW	P
BROWN 3-2	03	010S	020W	4301330986	10290	Fee	GW	P
WALKER 2-24A5	24	010S	050W	4301331085	218	Fee	OW	S
MYRIN RANCH 1	20	020S	030W	4301330176	1091	Fee	OW	P
JOSIE 1-3B5	03	020S	050W	4301330273	215	Fee	OW	P

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: **11/2/2004**
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: **11/2/2004**
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** **10/28/2004**
4. Is the new operator registered in the State of Utah: YES Business Number: **5275257-0142**
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: **n/a**

6

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** n/a **BIA** n/a

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

9. **Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: **n/a**

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

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** **12/21/2004**
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** **12/21/2004**
3. Bond information entered in RBDMS on: **12/21/2004**
4. Fee/State wells attached to bond in RBDMS on: **12/21/2004**
5. Injection Projects to new operator in RBDMS on: **n/a**
6. Receipt of Acceptance of Drilling Procedures for APD/New on: **n/a**

FEDERAL WELL(S) BOND VERIFICATION:

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

INDIAN WELL(S) BOND VERIFICATION:

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

FEE & STATE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number **F16420**
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:

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

43-013-30738

ROUTING
1. DJJ
2. CDW

Change of Operator (Well Sold) — **X - Operator Name Change/Merger**

The operator of the well(s) listed below has changed, effective: **1/1/2006**

FROM: (Old Operator):	**TO:** (New Operator):
N2485-Mountain Oil & Gas, Inc.	N3130-Homeland Gas & Oil, Inc.
PO Box 1776	PO Box 1776
Ballard, UT 84066	Ballard, UT 84066
Phone: 1 (435) 722-2992	Phone: 1 (435) 722-2992

CA No. **Unit:**

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
SEE ATTACHED LIST								

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: 10/30/2006
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 10/30/2006
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 6/19/2006

4a. Is the new operator registered in the State of Utah: yes Business Number: 6174726-0143

5a. (R649-9-2)Waste Management Plan has been received on: Requested 10/31/06

5b. Inspections of LA PA state/fee well sites complete on: n/a

5c. Reports current for Production/Disposition & Sundries on:

6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM not yet BIA not yet
7. **Federal and Indian Units:**
   The BLM or BIA has approved the successor of unit operator for wells listed on: n/a
8. **Federal and Indian Communization Agreements ("CA"):**
   The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
9. **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:** 10/31/2006
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 10/31/2006
3. Bond information entered in RBDMS on: 10/31/2006
4. Fee/State wells attached to bond in RBDMS on: 10/31/2006
5. Injection Projects to new operator in RBDMS on: n/a
6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: 310279523
2. Indian well(s) covered by Bond Number: SB-509795

3a. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number F16420

3b. The **FORMER** operator has requested a release of liability from their bond on: n/a
The Division sent response by letter on:

LEASE INTEREST OWNER NOTIFICATION:

4. (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: 10/31/2006

COMMENTS: Homeland Gas and Oil, Inc was added as a principal on the Mountain Oil & Gas Inc Bond - no release possible. All wells moved to Homeland, except three "Stripper Wells".

FORM 9

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: see attached list

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: see attached list

7. UNIT or CA AGREEMENT NAME: see attached list

8. WELL NAME and NUMBER: see attached list

9. API NUMBER: attached

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

2. NAME OF OPERATOR: Homeland Gas & Oil

3. ADDRESS OF OPERATOR: 3980 East Main, HWY 40 Ballard UT 84066 PHONE NUMBER: (435) 722-2992

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL

FOOTAGES AT SURFACE: see attached list

COUNTY:

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

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: _____
_____	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

Effective January 1, 2006, operation of attached well list was taken over by:

Homeland Gas & Oil
3980 E Main ST HWY 40 N3130
Ballard, UT 84066

Previous operator was: Mountain Oil & Gas N2485
PO Box 1574
Roosevelt, UT 84066

BIA Bond: SB-509795 (to be transferred from Mountain Oil & Gas)
BLM Bond: 0310279523 (to be transferred from Mountain Oil & Gas)
SITLA Bond: Dated 09/14/04 (to be transferred from Mountain Oil & Gss)

John Carson, attorney in fact,
Mountain Oil & Gas, Inc.

NAME (PLEASE PRINT): Paul McCulliss TITLE: Director

SIGNATURE: Paul McCulliss DATE: 10/22/06

(This space for State use only)

APPROVED 10/31/06
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

(5/2000)

RECEIVED
OCT 30 2006
DIV. OF OIL, GAS & MINING

well_name	sec	twp	rng	api	entity	qtr_qtr	well	stat	lease	l_num
UTE TRIBAL 1-34B	34	010N	020W	4301310494	775	SWNE	OW	P	Indian	14-20-H62-1704
WESLEY BASTIAN FEE 1	08	010S	010W	4301310496	942	SWNE	OW	S	Fee	FEE
UTE TRIBE 1-13	13	050S	040W	4301320073	1225	SWSW	OW	P	Indian	14-20-H62-4894
UTE TRIBAL 2	08	010S	010W	4301330020	690	NWSW	OW	S	Indian	14-20-H62-2117
UTE TRIBAL 2-35B	35	010N	020W	4301330106	705	NWSE	OW	P	Indian	14-20-H62-1614
DUSTIN 1	22	020S	030W	4301330122	1092	NESW	OW	S	Fee	FEE
HANSEN 1	23	020S	030W	4301330161	1093	SENW	OW	P	Fee	FEE
UTE TRIBAL 1-26B	26	010N	020W	4301330168	715	SWNE	OW	P	Indian	INDIAN
MYRIN RANCH 1	20	020S	030W	4301330176	1091	SWNE	OW	S	Fee	FEE
KNIGHT 1	28	020S	030W	4301330184	1090	SENW	OW	S	Fee	FEE
UTE 1-12B6	12	020S	060W	4301330268	1866	SENE	OW	S	Indian	14-20-H62-4951
JOSIE 1-3B5	03	020S	050W	4301330273	215	SENE	OW	S	Fee	FEE
V MILES 1	20	010S	040W	4301330275	740	NWNE	OW	S	Fee	FEE
A RUST 2	22	010S	040W	4301330290	745	NENE	OW	S	Fee	FEE
SINK DRAW 7	21	030S	070W	4301330302	6360	SENE	OW	S	Indian	14-20-H62-1141
UTE TRIBAL 1-32Z1	32	010N	010W	4301330324	755	NESW	OW	S	Indian	14-20-H62-2457
REIMANN 10-1	10	040S	060W	4301330460	6410	NESW	OW	S	Fee	FEE
TEXACO TRIBAL 3-1	03	040S	060W	4301330468	10959	NWNE	OW	S	Indian	14-20-H62-1939
BATES 9-1	09	040S	060W	4301330469	530	SENE	OW	S	Fee	FEE
UTE 1-14D6	14	040S	060W	4301330480	5275	SWNE	OW	P	Indian	14-20-H62-4893
1-31C5	31	030S	050W	4301330501	2330	SENW	OW	P	Indian	14-20-H62-4890
JOSIE 1A-3B5	03	020S	050W	4301330677	216	NESW	OW	S	Fee	FEE
LAWSON 1-21A1	21	010S	010W	4301330738	935	NESW	OW	S	Fee	FEE
UTE TRIBAL 11-25	25	040S	030W	4301330743	2645	NESW	OW	S	Indian	14-20-H62-4892
UTE TRIBAL 16-2	02	050S	040W	4301330756	2610	SESE	OW	P	Indian	14-20-H62-3404
UTE TRIBAL 7-24	24	040S	030W	4301330768	2625	SWNE	OW	P	Indian	14-20-H62-4891
UTE TRIBAL 24-12	24	050S	040W	4301330830	9104	NWSW	OW	S	Indian	14-20-H62-4716
UTE TRIBAL 13-15X	13	050S	040W	4301330844	9100	SWSE	OW	S	Indian	14-20-H62-4715
GUSHER 2-17B1	17	020S	010W	4301330846	8436	NENE	OW	S	Fee	FEE
COYOTE UTE TRIBAL 10-9	09	040S	040W	4301330861	9900	NWSE	OW	S	Indian	I-109-IND-5351
BROWN 3-2	03	010S	020W	4301330986	10290	NWNW	GW	P	Fee	FEE
L E FONT 3-27Z2	27	010N	020W	4301331052	9464	SESE	OW	P	Indian	14-20-H62-4733
BADGER UTE H E MANN 2-28Z2	28	010N	020W	4301331053	9459	SWSE	OW	P	Indian	14-20-H62-4305
WALKER 2-24A5	24	010S	050W	4301331085	218	SESW	OW	S	Fee	FEE
DYE-HALL 2-21A1	21	010S	010W	4301331163	10713	SENE	OW	S	Fee	FEE
BASTIAN 3-8A1	08	010S	010W	4301331181	10758	NWSE	OW	P	Fee	FEE
RUST 3-22A4	22	010S	040W	4301331266	11194	NESW	OW	S	Fee	FEE
BEND UNIT 2	08	070S	220E	4304715416	2475	NENE	GW	S	Federal	U-0647
MONADA STATE 1	02	060S	190E	4304730080	11089	NWNW	OW	PA	State	ML-40730
UTE TRIBAL 1-16A1E	16	010S	010E	4304730231	780	SESE	OW	P	Indian	14-20-H62-4888
C J HACKFORD 1-23	23	010S	010E	4304730279	790	SENW	OW	S	Fee	FEE
UTE TRIBAL 1-14-B1E	14	020S	010E	4304730774	4521	NWNE	OW	P	Indian	14-20-H62-2931
RIVER JUNCTION 11-18	18	090S	200E	4304731316	9705	NESW	OW	S	Federal	U-27041A
BRENNAN FED 4-15	15	070S	200E	4304731332	9760	NESE	GW	S	Federal	U-14219
PENNY 16-7	07	090S	200E	4304731360	2680	SESE	OW	S	Federal	U-27041
HORSESHOE BEND 34-E	34	060S	210E	4304731595	10203	SWNW	OW	S	Federal	U-74499

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. DJJ
2. CDW

X - Change of Operator (Well Sold) Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective: **4/13/2010**

FROM: (Old Operator):	**TO:** (New Operator):
N3130-Homeland Gas & Oil PO Box 1776 (2800 W Hwy 40) Roosevelt, UT 84066 Phone: 1 (435) 722-2992	N3065-El Paso E&P Company, LP 1099 18th St, Suite 1900 Denver, CO 80202 Phone: 1 (303) 291-6417

CA No. **Unit:**

WELL NAME	SEC	TWN	RNG	API NO	ENTITY	LEASE TYPE	WELL TYPE	WELL STATUS
LAWSON 1-21A1	**21**	**010S**	**010W**	**4301330738**	**935**	**Fee**	**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: 5/10/2010
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 5/10/2010
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 6/8/2010

4a. Is the new operator registered in the State of Utah: Business Number: 2114377-0181

5a. (R649-9-2)Waste Management Plan has been received on: IN PLACE

5b. Inspections of LA PA state/fee well sites complete on: n/a

5c. Reports current for Production/Disposition & Sundries on: ok

6. **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 n/a BIA n/a
7. **Federal and Indian Units:**
   The BLM or BIA has approved the successor of unit operator for wells listed on: n/a
8. **Federal and Indian Communization Agreements ("CA"):**
   The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
9. **Underground Injection Control ("UIC")** 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:** 6/8/2010
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 6/8/2010
3. Bond information entered in RBDMS on: 6/8/2010
4. Fee/State wells attached to bond in RBDMS on: 6/8/2010
5. Injection Projects to new operator in RBDMS on: n/a
6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

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

3a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 400JU0708

3b. The **FORMER** operator has requested a release of liability from their bond on: n/a

LEASE INTEREST OWNER NOTIFICATION:

4. (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 6/8/2010

COMMENTS:

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NUMBER: FEE ER 5/10/10
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME:
8. WELL NAME and NUMBER: Lawson 1-21A1
9. API NUMBER: 4301330738
10. FIELD AND POOL, OR WILDCAT: Bluebell

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER
2. NAME OF OPERATOR: Homeland Gas & Oil
3. ADDRESS OF OPERATOR: 2800 West Highway 40 CITY Roosevelt STATE UT ZIP 84066 PHONE NUMBER: (435) 722-2992
4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1,516' FWL and 1,546' FSL COUNTY: Duchesne
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 21 1S 1W U 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:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

Effective April 13, 2010, operations of the Lawson 1-21A1 was taken over by:

N3065 El Paso E&P Company, L.P.
1099 18th Street, Suite 1900
Denver, CO 80202
(303) 291-6417

Mary Ann Bilodeau
Attorney-in-Fact

The Previous Operator was: Homeland Gas & Oil
2800 West Hwy 40
N3130 Roosevelt, UT 84066

P. O. Box 1776
Roosevelt, UT 84066

Effective April 13, 2010, El Paso E&P Company, L.P. is responsible for operations conducted on the Lawson 1-21A1 well under Utah Department of Natural Resources Bond 400JU0708 issued by Travelers Casualty and Surety.

NAME (PLEASE PRINT) Craig Phillips TITLE President
SIGNATURE Cy Phillips DATE 4/26/2010

(This space for State use only)

APPROVED 6/8/2010
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

(5/2000)

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MAY 10 2010
DIV. OF OIL, GAS & MINING

APPLICATION FOR WATER INJECTION LAWSON 1-21A1

1546 FSL & 1516 FWL 21-1S-1W

Duchesne County, UT

1. UIC Form 1 and Designation of Agent form 5

2. A plat showing the location of the proposed salt water disposal well and surface owners within a ½ mile radius of the proposed well. There are no other wells within the ½ miles radius. Mountain Oil & Gas is the owner and Homeland Oil & Gas is the operator.

3. Copies of electrical, radioactive, and cement bond logs should be on file with UDOGM

4. Current and proposed wellbore diagrams showing the current casing and proposed program for the SWD are enclosed as part of the UDOGM form 9 sundry to Gather data to convert to SWD.

5. Produced water from wells in the Altamont Bluebell field will be disposed in the proposed SWD. Enclosed are standard laboratory water analyses for a representative sample of the fluid to be disposed and a list of the wells disposing. The operator is currently requesting approval to work on the Lawson 1-21A1 to gather formation water analysis data to determine the compatibility of the fluids. The proposed estimated daily water volumes to be disposed are 1,500 to 2,000 BWPD.

6. Proposed average and maximum injection pressure will be determined after the step rate test.

7. See attached geological data, cross sections and maps.

8. Enclosed is a query from the Utah Division of Water Rights indicating there are no water source wells within the ½ mile radius. There are no other wells either producing or abandoned.

9. Mountain Oil & Gas is the owner and Homeland Oil & Gas is the operator. A list of the surface owners is enclosed. A copy of the injection application has been sent to the surface owners of record. An affidavit to that concern is enclosed.

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DEC 10 2009

DIV. OF OIL, GAS & MINING

elpaso | Exploration & Production

December 14, 2009

Mr. Brad Hill
Utah DOGM
1594 West North Temple
Suite 1210
P.O. Box 145801
Salt Lake City, UT 84114-5801

RE: Lawson 1-21A1 Salt Water Disposal Application

Brad,
Enclosed please find two copies of REVISED water well maps and data for water wells found within a 2640' radius of the proposed SWD as found on the Utah Division of Water Rights. On the map there appears to be a well within the 2640' radius (as indicated by the red dot) in section 28; but a water right number doesn't show up in the tabular data. I am uncertain which is correct, based on this UDWR.

Sorry for the inconvenience.

Sincerely,

Marie OKeefe
Sr. Regulatory Analyst

El Paso E&P Company, L.P.
1099 18th Street, Suite 1900 Denver, Colorado 80202
tel 303.291.6400 fax 303.291.6487

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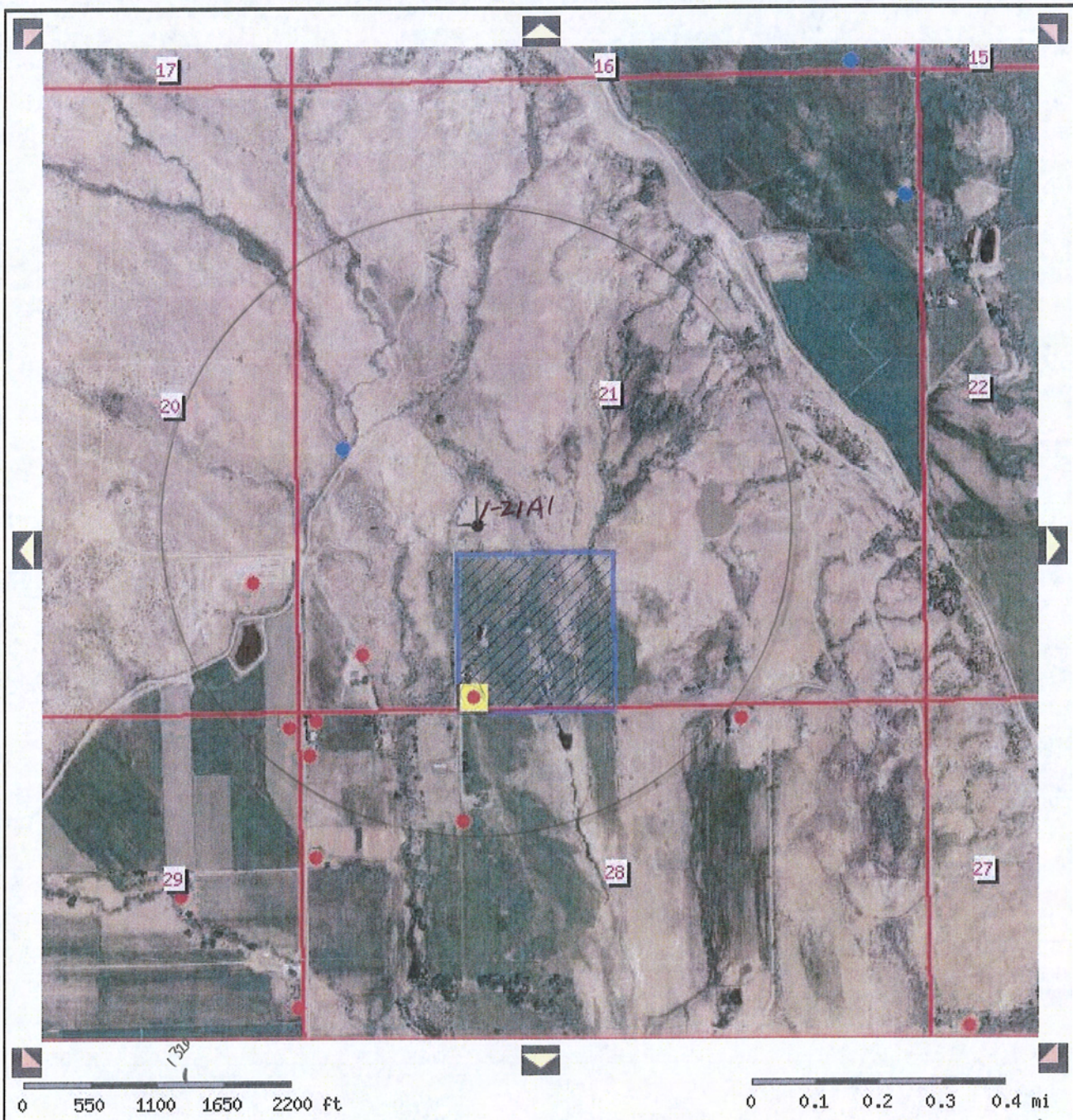
utah gov | Online Services | Agency List | Business

Search

Utah Division of Water Rights



Zoom In Mode

Map Tools

Display

Aerial Photographs

Legend

- UNDERGROUND
- SURFACE
- SPRING
- POINT TO POINT
- REDIVERSION
- 43-7458 Points
- 43-7458 Place of
- Sections

SW 1452 → E 1561

5 10cm = 1mi
4 in = 1 mile
1320 ft/in

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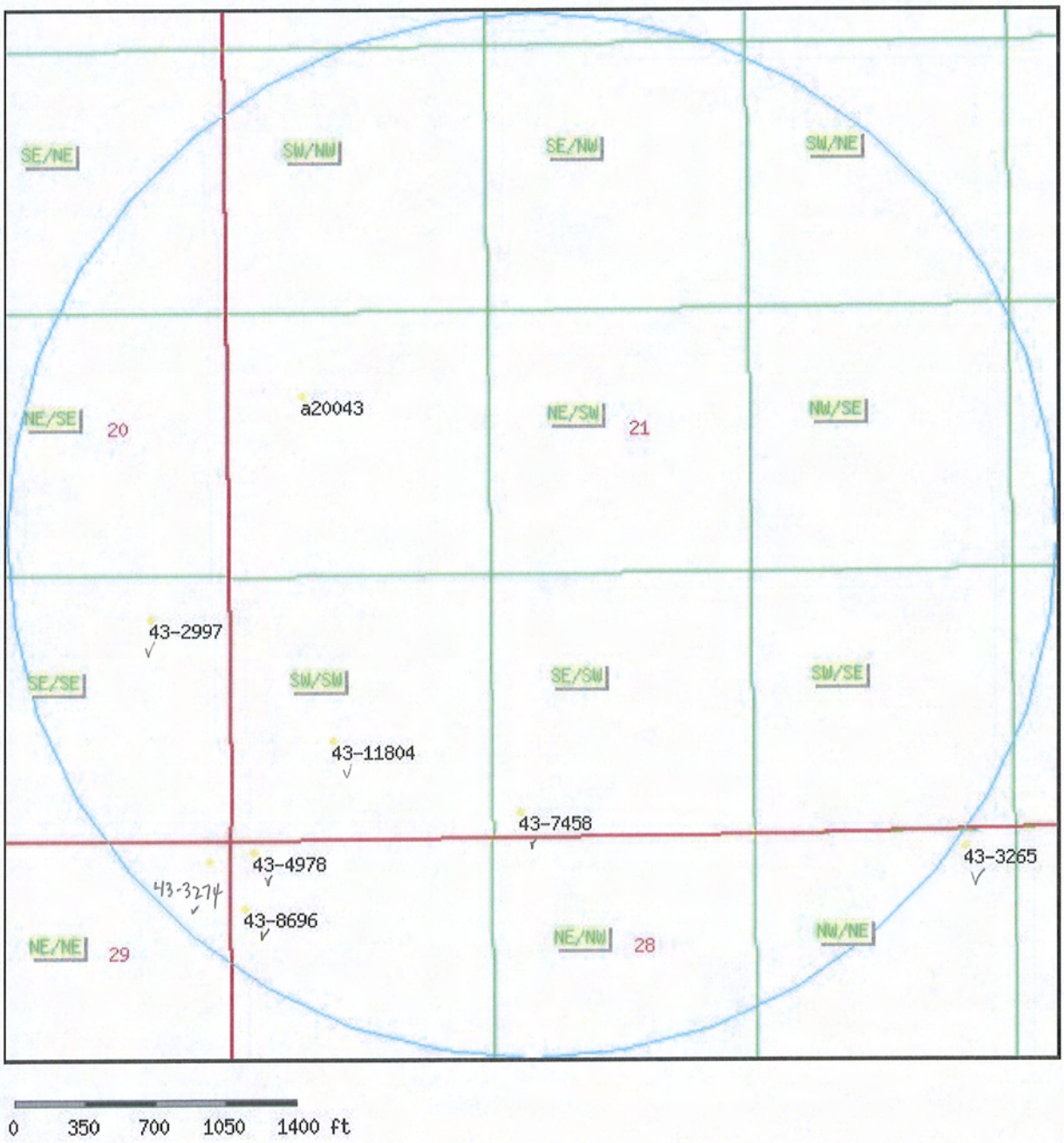
Search all of Utah.gov »

Utah Division of Water Rights

Output Listing

Version: 2009.05.06.00 **Rundate: 12/14/2009 09:54 AM**

Radius search of 2640 feet from a point N1546 E1516 from the SW corner, section 21, Township 1S, Range 1W, US b&m Criteria:wrtypes=W,C,E podtypes=S,U,D,Sp,P,R,T status=U,A,P usetypes=all



Water Rights

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WR Number	Diversion Type/Location	Well Log	Status	Priority	Uses	CFS	ACFT	Owner Name
43-11804	Underground √		A	20060807	DIS	0.000	1.480	EMERALD MARKETING & TECHNOLOGY INC.
	N510 E510 SW 21 1S 1W US							C/O JARED JENSEN
43-2997	Underground √	well info	P	19731219	S	0.015	0.000	R. GERALD DYE
	N1125 W400 SE 20 1S 1W US							RT. 1, BOX 10
43-3172	Surface		P	19181223	DI	5.000	0.000	DRY GULCH IRRIGATION COMPANY
	S409 E381 W4 21 1S 1W US							P. O. BOX 265
43-3265	Underground √		P	19420904	DS	0.015	0.000	VERNON E. PENFIELD
	S75 E1064 N4 28 1S 1W US							ROUTE #2
43-3274	Underground √		P	19421221	DI	0.015	0.000	SUSAN S. J. ASAY
	S100 W100 NE 29 1S 1W US							471 BALTIC COURT
43-4978	Underground √	well info	P	19190000	DIS	0.001	0.000	ELWOOD F. & SHERRY P. BAIR
	N5190 E33 SW 28 1S 1W US							P. O. BOX 776
43-7458	Underground √	well info	P	19740328	DIS	0.015	0.000	HARVEY AND CAROLYN ELDE
	N150 E1452 SW 21 1S 1W US							ROUTE 1, BOX 11A
43-8696	Underground √		U	19800731	DIS	0.015	0.000	CHARLES H. SWEAT
	S340 E73 NW 28 1S 1W US							1579 WEST 500 NORTH
a20043	Surface		A	19960410	I	378.570	0.000	DRY GULCH IRRIGATION COMPANY
	S409 E381 W4 21 1S 1W US							P. O. BOX 265

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Water Analysis Report

Customer :	**El Paso Production Oil & Gas Company**	**Field :**	Altamont-Bluebell Field
Address :	P. 0. Box 120	**Lease :**	Altamont-Bluebell Field
City :	Altamont	**Location :**	Well No. 01-18B1
State :	UT **Postal Code :** 84001-	**Sample Point :**	wellhead
Attention :		**Date Sampled :**	07-Mar-08
cc1 :		**Date Received :**	10-Mar-08
cc2 :		**Date Reported :**	13-Mar-08
cc3 :		**Salesman :**	Larry Curtis
Comments :		**Analyst :**	Karen Hawkins Allen

CATIONS

Calcium :	74	mg/l
Magnesium :	60	mg/l
Barium :		mg/l
Strontium :		mg/l
Iron :	3.0	mg/l
Sodium :	6836	mg/l

ANIONS

Chloride :	4,440	mg/l
Carbonate :	1,220	mg/l
Bicarbonate :	10,126	mg/l
Sulfate :	710	mg/l

pH (field) :	8.30		**Specific Gravity :**	1.005	grams/ml
Temperature :	85	degrees F	**Total Dissolved Solids :**	23,469	ppm
Ionic Strength :	0.31		**CO2 in Water :**	1	mg/l
			CO2 in Gas :	0.03	mole %
Resistivity :		ohm/meters	**H2S in Water :**	0.7	mg/l
Ammonia :		ppm	**Dissolved Oxygen :**		ppm

SI calculations based on Tomson-Oddo parameters

Calcite (CaCO3) SI :	3.30	Calcite PTB :	64.7
Calcite (CaCO3) SI @ 100 F :	3.45	Calcite PTB @ 100 F :	64.7
Calcite (CaCO3) SI @ 120 F :	3.66	Calcite PTB @ 120 F :	64.7
Calcite (CaCO3) SI @ 140 F :	3.88	Calcite PTB @ 140 F :	64.7
Calcite (CaCO3) SI @ 160 F :	4.10	Calcite PTB @ 160 F :	64.7
Gypsum (CaSO4) SI :	-1.89	Gypsum PTB :	N/A
Barite (BaSO4) SI :	N/A	Barite PTB :	N/A
Celestite (SrSO4) SI :	N/A	Celestite PTB :	N/A

Water Analysis Report

Customer :	**El Paso Production Oil & Gas Company**	**Field :**	Altamont-Bluebell Field
Address :	P. 0. Box 120	**Lease :**	Altamont-Bluebell Field
City :	Altamont	**Location :**	Well No 01-34A1
State :	UT **Postal Code :** 84001-	**Sample Point :**	wellhead
Attention :		**Date Sampled :**	28-Feb-08
cc1 :		**Date Received :**	29-Feb-08
cc2 :		**Date Reported :**	05-Mar-08
cc3 :		**Salesman :**	Larry Curtis
Comments :		**Analyst :**	Karen Hawkins Allen

CATIONS

Calcium :	98	mg/l
Magnesium :	26	mg/l
Barium :		mg/l
Strontium :		mg/l
Iron :	3.0	mg/l
Sodium :	3048	mg/l

ANIONS

Chloride :	4,160	mg/l
Carbonate :	0	mg/l
Bicarbonate :	1,220	mg/l
Sulfate :	108	mg/l

pH (field) :	7.00		**Specific Gravity :**	1.010	grams/ml
Temperature :	85	degrees F	**Total Dissolved Solids :**	8,663	ppm
Ionic Strength :	0.14		**CO2 in Water :**	352	mg/l
			CO2 in Gas :	0.03	mole %
Resistivity :		ohm/meters	**H2S in Water :**	3.0	mg/l
Ammonia :		ppm	**Dissolved Oxygen :**		ppm

SI calculations based on Tomson-Oddo parameters

Calcite (CaCO3) SI :	-0.58	Calcite PTB :	N/A
Calcite (CaCO3) SI @ 100 F :	-0.42	Calcite PTB @ 100 F :	N/A
Calcite (CaCO3) SI @ 120 F :	-0.21	Calcite PTB @ 120 F :	N/A
Calcite (CaCO3) SI @ 140 F :	0.01	Calcite PTB @ 140 F :	1.3
Calcite (CaCO3) SI @ 160 F :	0.23	Calcite PTB @ 160 F :	30.8
Gypsum (CaSO4) SI :	-2.41	Gypsum PTB :	N/A
Barite (BaSO4) SI :	N/A	Barite PTB :	N/A
Celestite (SrSO4) SI :	N/A	Celestite PTB :	N/A

Water Analysis Report

Customer :	**El Paso Production Oil & Gas Company**	**Field :**	Altamont-Bluebell Field
Address :	P. 0. Box 120	**Lease :**	Altamont-Bluebell Field
City :	Altamont	**Location :**	Well No. 01-35A1
State :	UT **Postal Code :** 84001-	**Sample Point :**	wellhead
Attention :		**Date Sampled :**	28-Feb-08
cc1 :		**Date Received :**	29-Feb-08
cc2 :		**Date Reported :**	05-Mar-08
cc3 :		**Salesman :**	Larry Curtis
Comments :		**Analyst :**	Karen Hawkins Allen

CATIONS

Calcium :	69	mg/l
Magnesium :	25	mg/l
Barium :		mg/l
Strontium :		mg/l
Iron :	2.0	mg/l
Sodium :	7249	mg/l

ANIONS

Chloride :	10,018	mg/l
Carbonate :	1	mg/l
Bicarbonate :	2,196	mg/l
Sulfate :	108	mg/l

pH (field) :	7.30		**Specific Gravity :**	1.025	grams/ml
Temperature :	85	degrees F	**Total Dissolved Solids :**	19,668	ppm
Ionic Strength :	0.32		**CO2 in Water :**	53	mg/l
			CO2 in Gas :	0.03	mole %
Resistivity :		ohm/meters	**H2S in Water :**	14.0	mg/l
Ammonia :		ppm	**Dissolved Oxygen :**		ppm

SI calculations based on Tomson-Oddo parameters

Calcite (CaCO3) SI :	0.20	Calcite PTB :	20.7
Calcite (CaCO3) SI @ 100 F :	0.35	Calcite PTB @ 100 F :	32.1
Calcite (CaCO3) SI @ 120 F :	0.56	Calcite PTB @ 120 F :	42.4
Calcite (CaCO3) SI @ 140 F :	0.78	Calcite PTB @ 140 F :	49.5
Calcite (CaCO3) SI @ 160 F :	1.01	Calcite PTB @ 160 F :	54.0
Gypsum (CaSO4) SI :	-2.71	Gypsum PTB :	N/A
Barite (BaSO4) SI :	N/A	Barite PTB :	N/A
Celestite (SrSO4) SI :	N/A	Celestite PTB :	N/A

Water Analysis Report

Customer :	**El Paso Production Oil & Gas Company**	**Field :**	Altamont-Bluebell Field
Address :	P. 0. Box 120	**Lease :**	Altamont-Bluebell Field
City :	Altamont	**Location :**	Chasel 02-17A1
State :	UT **Postal Code :** 84001-	**Sample Point :**	wellhead
Attention :		**Date Sampled :**	28-Feb-08
cc1 :		**Date Received :**	29-Feb-08
cc2 :		**Date Reported :**	05-Mar-08
cc3 :		**Salesman :**	Larry Curtis
Comments :		**Analyst :**	Karen Hawkins Allen

CATIONS

Calcium :	100	mg/l
Magnesium :	28	mg/l
Barium :		mg/l
Strontium :		mg/l
Iron :	1.0	mg/l
Sodium :	3688	mg/l

ANIONS

Chloride :	4,500	mg/l
Carbonate :	0	mg/l
Bicarbonate :	768	mg/l
Sulfate :	1,353	mg/l

pH (field) :	7.00		**Specific Gravity :**	1.010	grams/ml
Temperature :	85	degrees F	**Total Dissolved Solids :**	10,438	ppm
Ionic Strength :	0.17		**CO2 in Water :**	70	mg/l
			CO2 in Gas :	0.03	mole %
Resistivity :		ohm/meters	**H2S in Water :**	3.0	mg/l
Ammonia :		ppm	**Dissolved Oxygen :**		ppm

SI calculations based on Tomson-Oddo parameters

Calcite (CaCO3) SI :	-0.36	Calcite PTB :	N/A
Calcite (CaCO3) SI @ 100 F :	-0.20	Calcite PTB @ 100 F :	N/A
Calcite (CaCO3) SI @ 120 F :	0.01	Calcite PTB @ 120 F :	1.4
Calcite (CaCO3) SI @ 140 F :	0.23	Calcite PTB @ 140 F :	28.7
Calcite (CaCO3) SI @ 160 F :	0.45	Calcite PTB @ 160 F :	48.5
Gypsum (CaSO4) SI :	-1.42	Gypsum PTB :	N/A
Barite (BaSO4) SI :	N/A	Barite PTB :	N/A
Celestite (SrSO4) SI :	N/A	Celestite PTB :	N/A

Water Analysis Report

Champion Technologies

Customer :	**El Paso Production Oil & Gas Company**	**Field :**	Altamont-Bluebell Field
		Lease :	Altamont-Bluebell Field
Address :	P. 0. Box 120	**Location :**	Sprouse Bowden 2-18B1
City :	Altamont	**Sample Point :**	wellhead
State :	UT **Postal Code :** 84001-		
Attention :		**Date Sampled :**	21-May-08
cc1 :		**Date Received :**	22-May-08
cc2 :		**Date Reported :**	05-Jun-08
cc3 :		**Salesman :**	Larry Curtis
Comments :		**Analyst :**	Karen Hawkins Allen

CATIONS

Calcium :	838	mg/l
Magnesium :	52	mg/l
Barium :		mg/l
Strontium :		mg/l
Iron :	40.0	mg/l
Sodium :	4768	mg/l

ANIONS

Chloride :	7,880	mg/l
Carbonate :	0	mg/l
Bicarbonate :	1,174	mg/l
Sulfate :	575	mg/l

pH (field) :	7.00		**Specific Gravity :**	1.015	grams/ml
Temperature :	85	degrees F	**Total Dissolved Solids :**	15,327	ppm
Ionic Strength :	0.25		**CO2 in Water :**	53	mg/l
			CO2 in Gas :	0.03	mole %
Resistivity :		ohm/meters	**H2S in Water :**	0.0	mg/l
Ammonia :		ppm	**Dissolved Oxygen :**		ppm

SI calculations based on Tomson-Oddo parameters

Calcite (CaCO3) SI :	0.87	Calcite PTB :	337.8
Calcite (CaCO3) SI @ 100 F :	1.02	Calcite PTB @ 100 F :	375.0
Calcite (CaCO3) SI @ 120 F :	1.23	Calcite PTB @ 120 F :	423.6
Calcite (CaCO3) SI @ 140 F :	1.45	Calcite PTB @ 140 F :	463.7
Calcite (CaCO3) SI @ 160 F :	1.67	Calcite PTB @ 160 F :	499.5
Gypsum (CaSO4) SI :	-0.97	Gypsum PTB :	N/A
Barite (BaSO4) SI :	N/A	Barite PTB :	N/A
Celestite (SrSO4) SI :	N/A	Celestite PTB :	N/A

Water Analysis Report

Champion Technologies

Customer :	**El Paso Production Oil & Gas Company**	**Field :**	Altamont-Bluebell Field
		Lease :	Altamont-Bluebell Field
Address :	P. 0. Box 120	**Location :**	Well No. 1-1B1
City :	Altamont	**Sample Point :**	wellhead
State :	UT **Postal Code :** 84001-		
		Date Sampled :	07-Mar-08
Attention :		**Date Received :**	10-Jun-08
cc1 :		**Date Reported :**	13-Mar-08
cc2 :			
cc3 :		**Salesman :**	Larry Curtis
Comments :		**Analyst :**	Karen Hawkins Allen

CATIONS

Calcium :	81	mg/l
Magnesium :	160	mg/l
Barium :		mg/l
Strontium :		mg/l
Iron :	7.0	mg/l
Sodium :	2439	mg/l

ANIONS

Chloride :	3,180	mg/l
Carbonate :	196	mg/l
Bicarbonate :	1,914	mg/l
Sulfate :	108	mg/l

pH (field) :	8.70		**Specific Gravity :**	1.005	grams/ml
Temperature :	85	degrees F	**Total Dissolved Solids :**	8,085	ppm
Ionic Strength :	0.12		**CO2 in Water :**	1	mg/l
			CO2 in Gas :	0.03	mole %
Resistivity :		ohm/meters	**H2S in Water :**	0.5	mg/l
Ammonia :		ppm	**Dissolved Oxygen :**		ppm

SI calculations based on Tomson-Oddo parameters

Calcite (CaCO3) SI :	2.35	Calcite PTB :	70.5
Calcite (CaCO3) SI @ 100 F :	2.50	Calcite PTB @ 100 F :	70.6
Calcite (CaCO3) SI @ 120 F :	2.71	Calcite PTB @ 120 F :	70.7
Calcite (CaCO3) SI @ 140 F :	2.93	Calcite PTB @ 140 F :	70.7
Calcite (CaCO3) SI @ 160 F :	3.15	Calcite PTB @ 160 F :	70.8
Gypsum (CaSO4) SI :	-2.52	Gypsum PTB :	N/A
Barite (BaSO4) SI :	N/A	Barite PTB :	N/A
Celestite (SrSO4) SI :	N/A	Celestite PTB :	N/A

Water Analysis Report

Customer :	**El Paso Production Oil & Gas Company**	**Field :**	Altamont-Bluebell Field
		Lease :	Altamont-Bluebell Field
Address :	P. 0. Box 120	**Location :**	Well No. 01-20A1
City :	Altamont	**Sample Point :**	wellhead
State :	UT **Postal Code :** 84001-		
		Date Sampled :	28-Feb-08
Attention :		**Date Received :**	29-Feb-08
cc1 :		**Date Reported :**	05-Mar-08
cc2 :			
cc3 :		**Salesman :**	Larry Curtis
Comments :		**Analyst :**	Karen Hawkins Allen

CATIONS

Calcium :	134	mg/l
Magnesium :	48	mg/l
Barium :		mg/l
Strontium :		mg/l
Iron :	1.0	mg/l
Sodium :	3445	mg/l

ANIONS

Chloride :	4,320	mg/l
Carbonate :	0	mg/l
Bicarbonate :	1,085	mg/l
Sulfate :	1,000	mg/l

pH (field) :	7.50		**Specific Gravity :**	1.005	grams/ml
Temperature :	85	degrees F	**Total Dissolved Solids :**	10,033	ppm
Ionic Strength :	0.16		**CO2 in Water :**	44	mg/l
			CO2 in Gas :	0.03	mole %
Resistivity :		ohm/meters	**H2S in Water :**	4.0	mg/l
Ammonia :		ppm	**Dissolved Oxygen :**		ppm

SI calculations based on Tomson-Oddo parameters

Calcite (CaCO3) SI :	0.30	Calcite PTB :	47.6
Calcite (CaCO3) SI @ 100 F :	0.45	Calcite PTB @ 100 F :	65.0
Calcite (CaCO3) SI @ 120 F :	0.67	Calcite PTB @ 120 F :	83.8
Calcite (CaCO3) SI @ 140 F :	0.88	Calcite PTB @ 140 F :	95.7
Calcite (CaCO3) SI @ 160 F :	1.11	Calcite PTB @ 160 F :	104.1
Gypsum (CaSO4) SI :	-1.41	Gypsum PTB :	N/A
Barite (BaSO4) SI :	N/A	Barite PTB :	N/A
Celestite (SrSO4) SI :	N/A	Celestite PTB :	N/A

Water Analysis Report

Customer :	**El Paso Production Oil & Gas Company**	**Field :**	Altamont-Bluebell Field
		Lease :	Altamont-Bluebell Field
Address :	P. 0. Box 120	**Location :**	Well No. 02-20A1
City :	Altamont	**Sample Point :**	wellhead
State :	UT **Postal Code :** 84001-		
		Date Sampled :	28-Feb-08
Attention :		**Date Received :**	29-Feb-08
cc1 :		**Date Reported :**	05-Mar-08
cc2 :			
cc3 :		**Salesman :**	Larry Curtis
Comments :		**Analyst :**	Karen Hawkins Allen

CATIONS

Calcium :	598	mg/l
Magnesium :	11	mg/l
Barium :		mg/l
Strontium :		mg/l
Iron :	2.0	mg/l
Sodium :	4684	mg/l

ANIONS

Chloride :	7,140	mg/l
Carbonate :	0	mg/l
Bicarbonate :	723	mg/l
Sulfate :	1,020	mg/l

pH (field) :	7.00		**Specific Gravity :**	1.010	grams/ml
Temperature :	85	degrees F	**Total Dissolved Solids :**	14,178	ppm
Ionic Strength :	0.23		**CO2 in Water :**	35	mg/l
			CO2 in Gas :	0.03	mole %
Resistivity :		ohm/meters	**H2S in Water :**	3.0	mg/l
Ammonia :		ppm	**Dissolved Oxygen :**		ppm

SI calculations based on Tomson-Oddo parameters

Calcite (CaCO3) SI :	0.52	Calcite PTB :	147.1
Calcite (CaCO3) SI @ 100 F :	0.68	Calcite PTB @ 100 F :	179.7
Calcite (CaCO3) SI @ 120 F :	0.89	Calcite PTB @ 120 F :	219.6
Calcite (CaCO3) SI @ 140 F :	1.10	Calcite PTB @ 140 F :	252.3
Calcite (CaCO3) SI @ 160 F :	1.33	Calcite PTB @ 160 F :	282.9
Gypsum (CaSO4) SI :	-0.84	Gypsum PTB :	N/A
Barite (BaSO4) SI :	N/A	Barite PTB :	N/A
Celestite (SrSO4) SI :	N/A	Celestite PTB :	N/A

elpaso | Exploration & Production

December 16, 2009

TO WHOM IT MAY CONCERN (Surface Owners within 2640' of proposed SWD)

RE: Lawson 1-21A1 Salt Water Disposal Application

Owner:
Enclosed please find a REVISED water well map and data for water wells found within a 2640' radius of the proposed SWD as found on the Utah Division of Water Rights website.

In the original packet there was an error defining the water wells within 2640' of the proposed SWD. I apologize for any inconvenience this may have caused; it was simply a human error on my part as I accessed the data on the website. http://www.waterrights.utah.gov/wrinfo/query.asp

On December 14, 2009 I submitted the REVISION to Brad Hill at the Utah Division of Oil Gas and Mining; the regulatory agency governing Underground Injection Control.

Sincerely,

Marie OKeefe
Sr. Regulatory Analyst

Cc: Brad Hill – Utah Division of Oil Gas and Mining

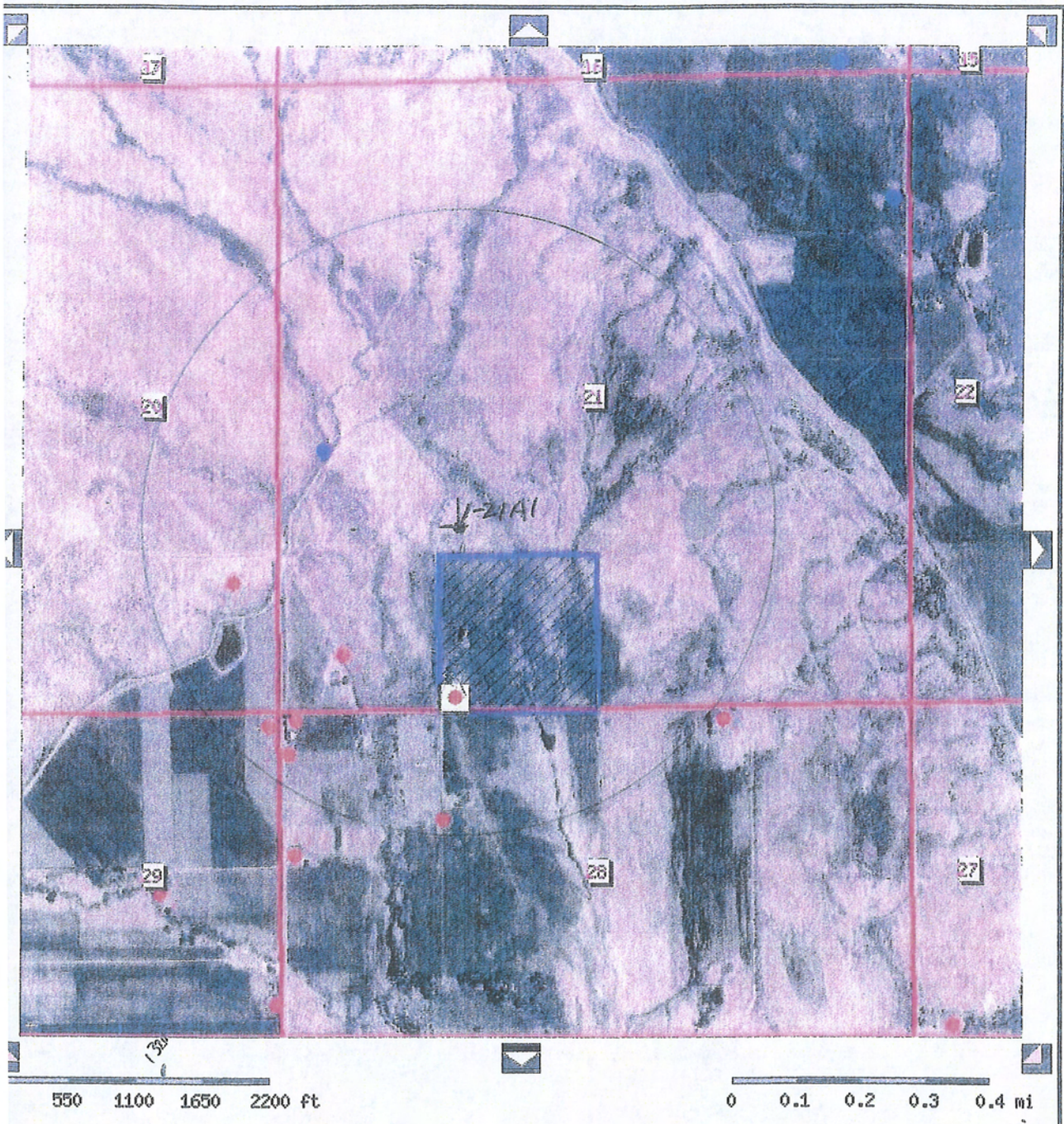
RECEIVED
DEC 21 2009
DIV. OF OIL, GAS & MINING

El Paso E&P Company, L.P.
1099 18th Street, Suite 1900 Denver, Colorado 80202
tel 303.291.6400 fax 303.291.6487

utah gov | Online Services | Agency List | Business

Search

Utah Division of Water Rights



Zoom In Mode

Map Tools

Display

Aerial Photographs

Legend

- UNDERGROUND
- SURFACE
- SPRING
- POINT TO POINT
- REDIVERSION
- 43-7458 Points
- 43-7458 Place of
- Sections

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DEC 21 2009

DIV. OF OIL, GAS & MINING

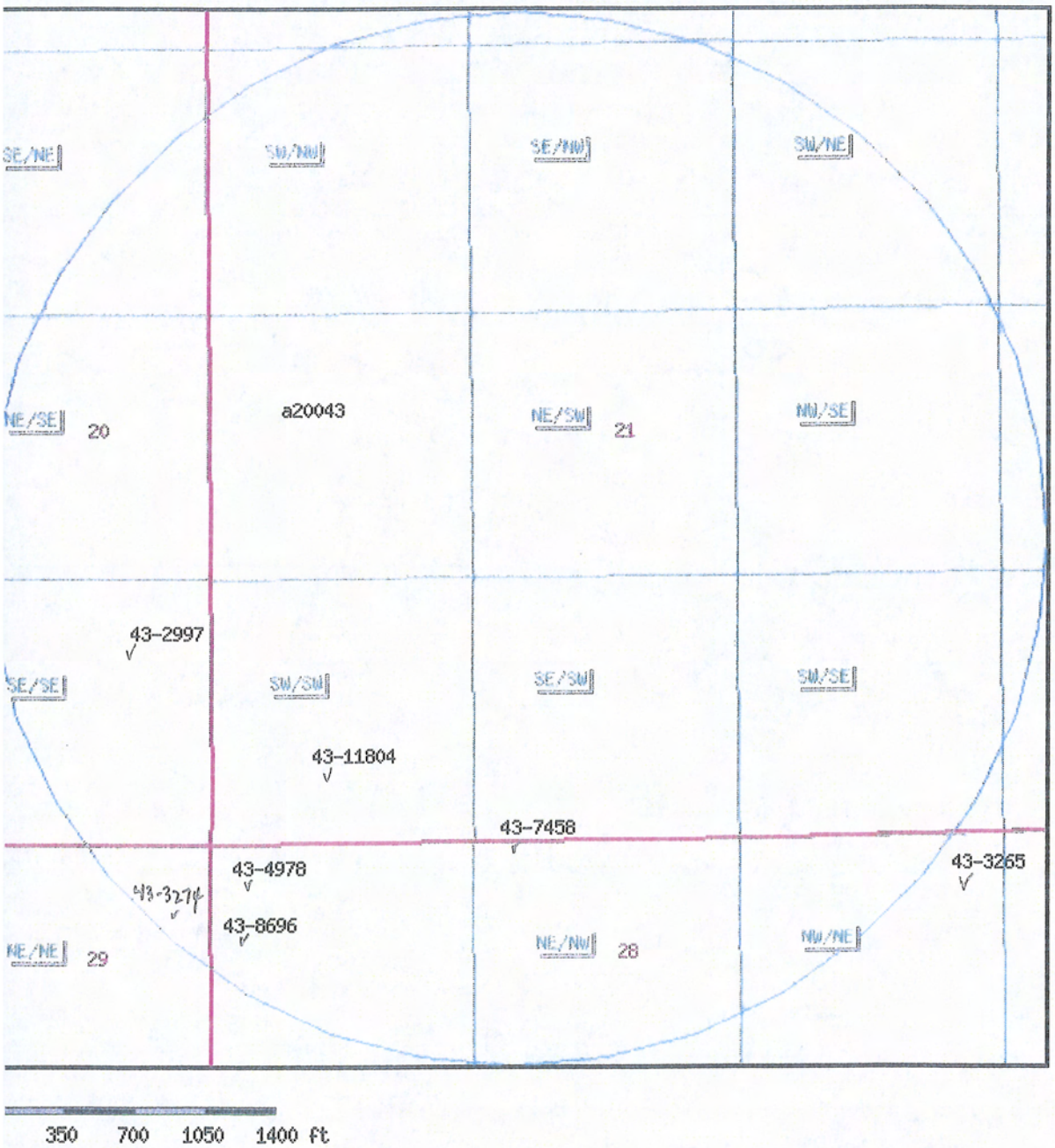
Search all of Utah.gov »

Utah Division of Water Rights

)utput Listing

ersion: 2009.05.06.00 Rundate: 12/14/2009 09:54 AM

adius search of 2640 feet from a point N1546 E1516 from the SW corner, section 21, Township 1S, Range 1W, US &m Criteria:wrtypes=W,C,E podtypes=S,U,D,Sp,P,R,T status=U,A,P usetypes=all



RECEIVED
DEC 21 2009
DIV. OF OIL, GAS & MINING

ater Rights

WR Number	Diversion Type/Location	Well Log	Status	Priority	Uses	CFS	ACFT	Owner Name
3-11804	Underground √ N510 E510 SW 21 1S 1W US		A	20060807	DIS	0.000	1.480	EMERALD MARKETING & TECHNOLOGY INC. C/O JARED JENSEN
3-2997	Underground √ N1125 W400 SE 20 1S 1W US	well info	P	19731219	S	0.015	0.000	R. GERALD DYE RT. 1, BOX 10
3-3172	Surface S409 E381 W4 21 1S 1W US		P	19181223	DI	5.000	0.000	DRY GULCH IRRIGATION COMPANY P. O. BOX 265
3-3265	Underground √ S75 E1064 N4 28 1S 1W US		P	19420904	DS	0.015	0.000	VERNON E. PENFIELD ROUTE #2
3-3274	Underground √ S100 W100 NE 29 1S 1W US		P	19421221	DI	0.015	0.000	SUSAN S. J. ASAY 471 BALTIC COURT
3-4978	Underground √ N5190 E33 SW 28 1S 1W US	well info	P	19190000	DIS	0.001	0.000	ELWOOD F. & SHERRY P. BAIR P. O. BOX 776
3-7458	Underground √ N150 E1452 SW 21 1S 1W US	well info	P	19740328	DIS	0.015	0.000	HARVEY AND CAROLYN ELDE ROUTE 1, BOX 11A
3-8696	Underground √ S340 E73 NW 28 1S 1W US		U	19800731	DIS	0.015	0.000	CHARLES H. SWEAT 1579 WEST 500 NORTH
.0043	Surface S409 E381 W4 21 1S 1W US		A	19960410	I	378.570	0.000	DRY GULCH IRRIGATION COMPANY P. O. BOX 265

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Surface Owner Address List for ½ mile Radius of the El Paso Lawson 1-21A1 SWD

R. Garold and Carol E. Dye
Route 1, Box 1080
Roosevelt, UT 84066-9704

John Chasel
2285 Lucky John Dr.
Park City, UT 84060-6914

Max Harvey Weiss
7509 Blackfriar Circle
West Jordan, UT 84084-0000

Emerald Marketing & Technology
P. O. Box 73
Durango, CO 81302-0073

Henry L. Hazel
RR 1, Box 1086
Roosevelt, UT 84066-9704

Elwood F. and Sherry P. Bair
913 E. Syrena Cir
Sandy, UT 84094-0000

Carolyn Elder
RR 1, Box 1088
Roosevelt, UT 84066-9704

Valerie M. Hudson Cassler
592 E. 200 N.
Orem, UT 84097-4823

William V. Ingalls
208 E. 4800 S.
Vernal, UT 84078-8865

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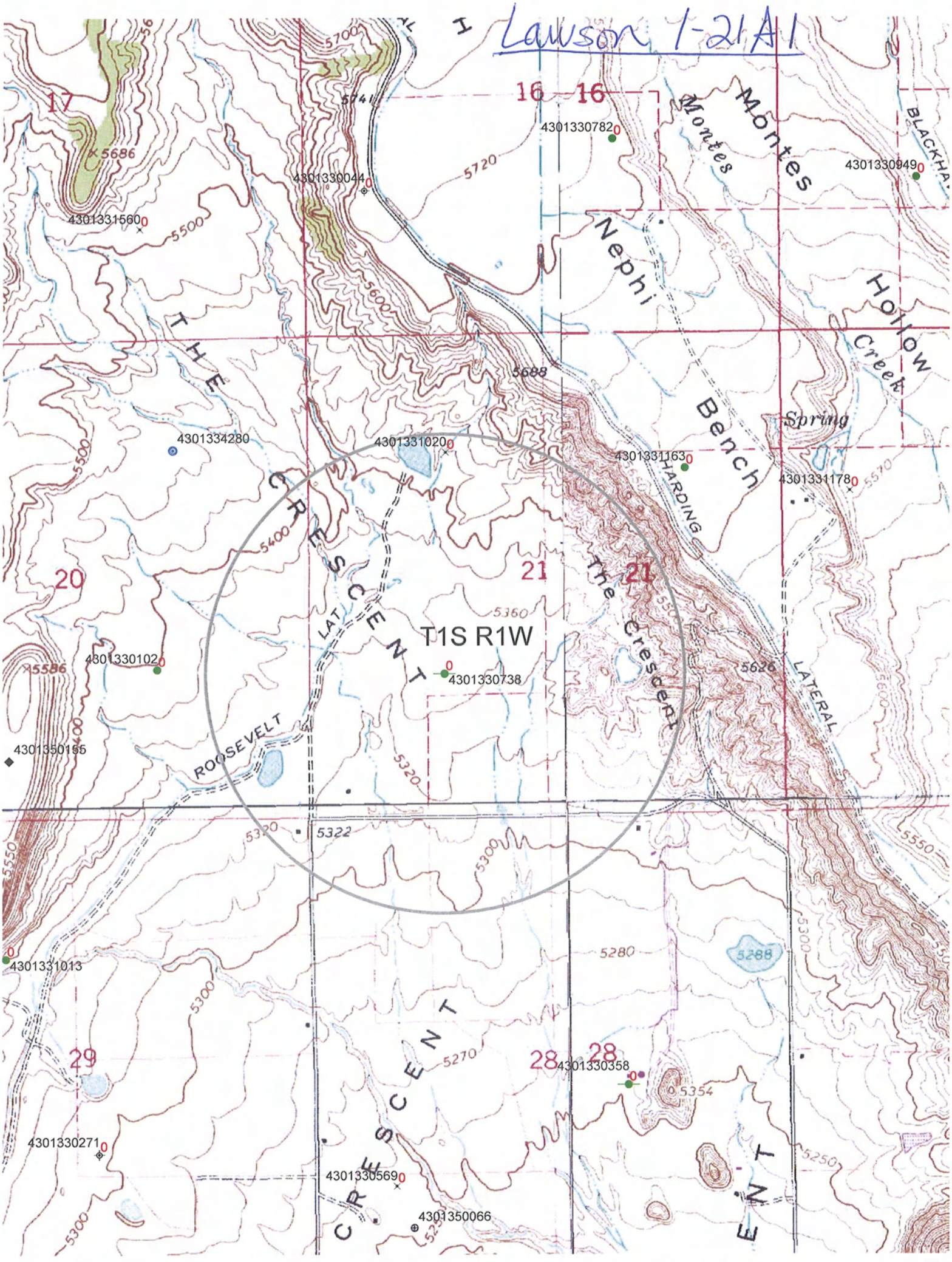
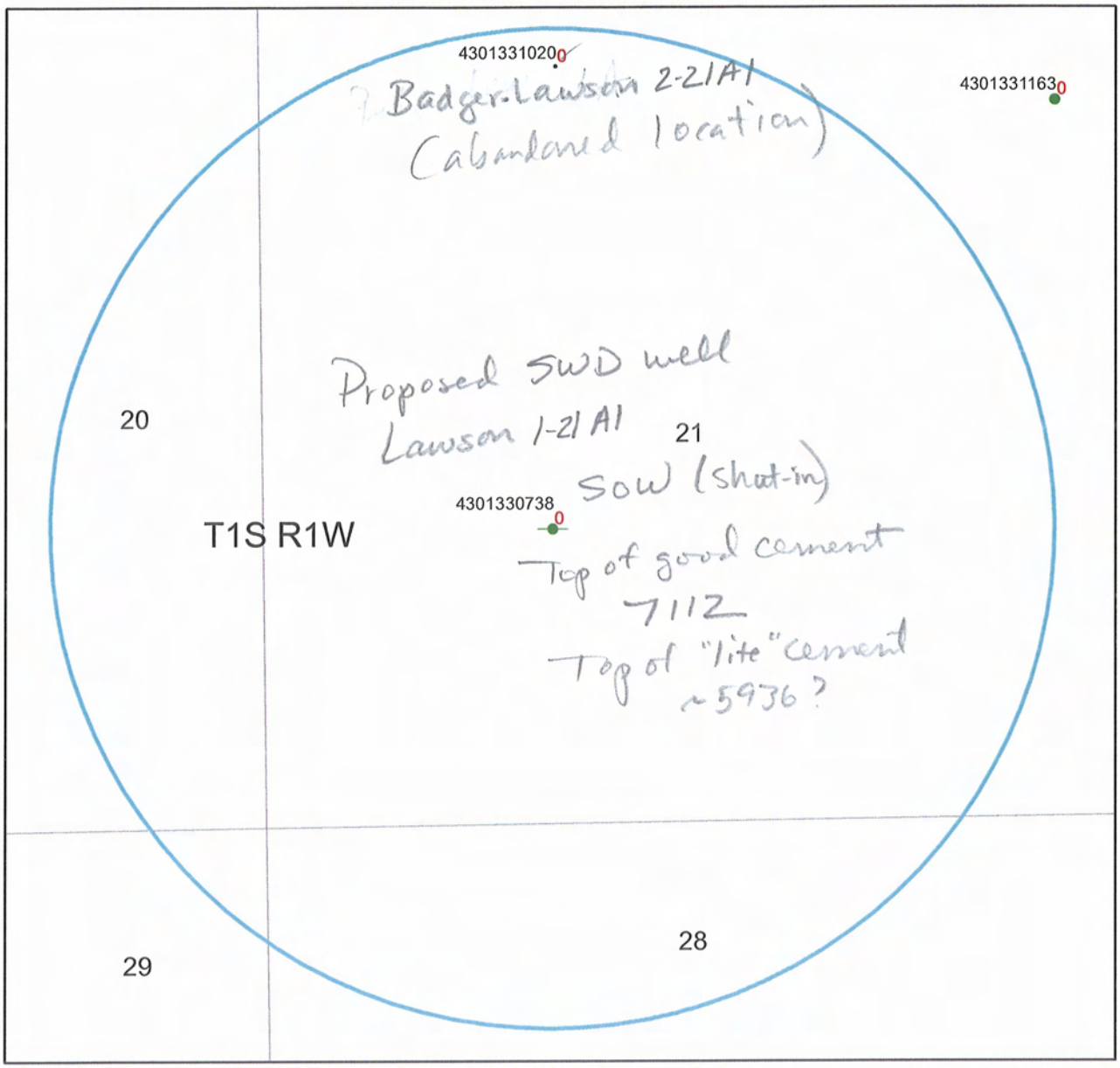
DIV. OF OIL, GAS & MINING

Lawson 1-2/A1
T1S R1W
17
16
15
20
21
22
29
28
27
4301330782
4301330044
4301330949
4301331560
4301334280
4301331020
4301331163
4301331178
4301330102
4301330738
4301350155
4301331013
4301330358
4301330271
4301330569
4301350066

Lawson 1-21A1





LAWSON 1-21A1

API #43-013-30738

UIC-359.1

Legend

- Buffer_of_Wells-CbltopsCopy

OGM Database View Events

- <all other values>

Status

- APD - Aproved Permit
- DRL - Spuded (Drilling Commenced)
- GIW - Gas Injection
- GS - Gas Storage
- LA - Location Abandoned
- LOC - New Location
- OPS - Operation Suspended
- PA - Plugged Abandoned
- PGW - Producing Gas Well
- POW - Producing Oil Well
- RET - Returned APD
- SGW - Shut-in Gas Well
- SOW - Shut-in Oil Well
- TA - Temp. Abandoned
- TW - Test Well
- WDW - Water Disposal
- WIW - Water Injection Well
- WSW - Water Supply Well

0 0.2 Miles

N

1870calc = approx cement top calculated from well completion report

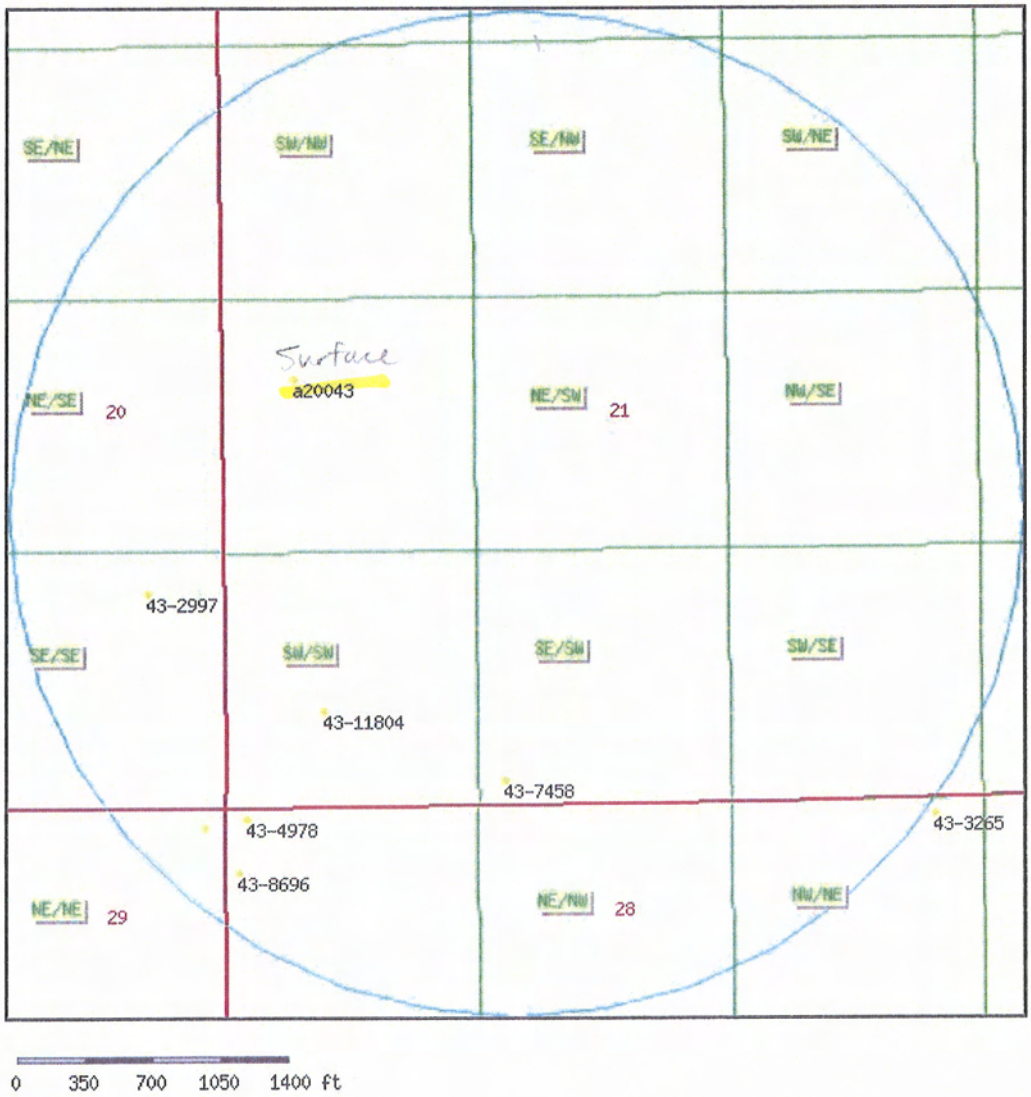
Search all of Utah.gov »

Utah Division of Water Rights

Output Listing

Version: 2009.05.06.00 **Rundate: 12/16/2009 03:22 PM**

Radius search of 2640 feet from a point N1546 E1516 from the SW corner, section 21, Township 1S, Range 1W, US b&m Criteria:wrtypes=W,C,E podtypes=S,U,D,Sp,P,R,T status=U,A,P usetypes=all



Water Rights

WR Number	Diversion Type/Location	Well Log	Status	Priority	Uses	CFS	ACFT	Owner Name
43-11804	Underground		A	20060807	DIS	0.000	1.480	EMERALD MARKETING & TECHNOLOGY INC.
	N510 E510 SW 21 1S 1W US							C/O JARED JENSEN

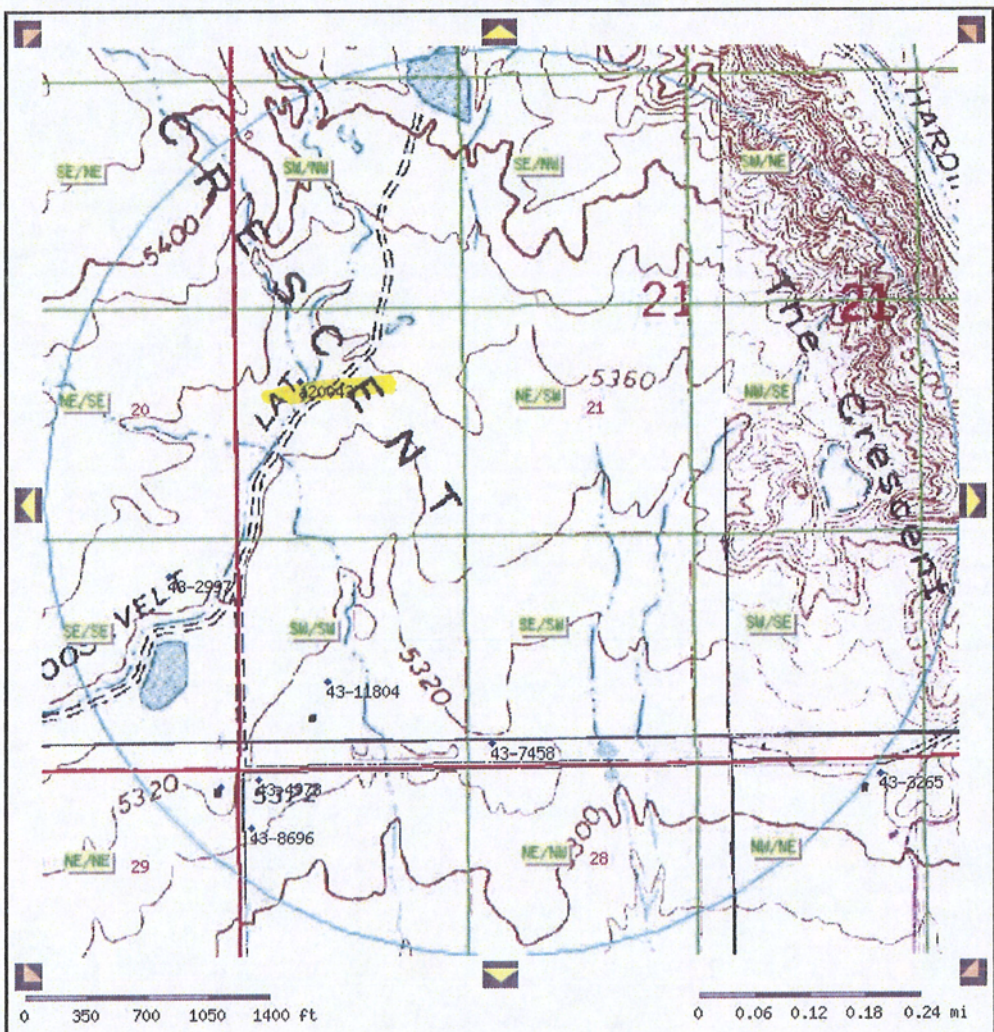
43-2997	Underground	well info	P	19731219 S	0.015	0.000	R. GERALD DYE
	N1125 W400 SE 20 1S 1W US						RT. 1, BOX 10
43-3172	Surface		P	19181223 DI	5.000	0.000	DRY GULCH IRRIGATION COMPANY
	S409 E381 W4 21 1S 1W US						P. O. BOX 265
43-3265	Underground		P	19420904 DS	0.015	0.000	VERNON E. PENFIELD
	S75 E1064 N4 28 1S 1W US						ROUTE #2
43-3274	Underground		P	19421221 DI	0.015	0.000	SUSAN S. J. ASAY
	S100 W100 NE 29 1S 1W US						471 BALTIC COURT
43-4978	Underground	well info	P	19190000 DIS	0.001	0.000	ELWOOD F. & SHERRY P. BAIR
	N5190 E33 SW 28 1S 1W US						P. O. BOX 776
43-7458	Underground	well info	P	19740328 DIS	0.015	0.000	HARVEY AND CAROLYN ELDER
	N150 E1452 SW 21 1S 1W US						ROUTE 1, BOX 11A
43-8696	Underground		U	19800731 DIS	0.015	0.000	CHARLES H. SWEAT
	S340 E73 NW 28 1S 1W US						1579 WEST 500 NORTH
a20043	Surface		A	19960410 I	378.570	0.000	DRY GULCH IRRIGATION COMPANY
	S409 E381 W4 21 1S 1W US						P. O. BOX 265

2 Surface rights
7 underground (wells)

utah gov | Online Services | Agency List | Business

Search

Utah Division of Water Rights

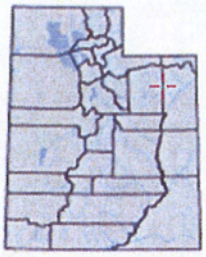


Zoom In Mode | Map Tools

Display	Layer Name
☐	Book Boundary
☐	Counties
☐	Water Quality
☐	County Parcels (As Available)
☐	County Parcel Labels
☑	Public Land Survey System
☐	Rivers and Streams
☐	Roads
☐	Water Right Areas
Topographic Maps	**Base Map**

Legend

- Location
- Search Boundary
- Townships
- Sections
- Forties



BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH
NOTICE OF AGENCY ACTION
CAUSE NO. UIC-359.1

IN THE MATTER OF THE APPLICATION OF HOMELAND GAS & OIL, INC. FOR ADMINISTRATIVE APPROVAL OF THE LAWSON 1-21A1 WELL, LOCATED IN SECTION 21, TOWNSHIP 1S, RANGE 1W, DUCHESNE COUNTY, UTAH, AS A CLASS II INJECTION WELL.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Homeland Gas & Oil, Inc. for administrative approval of the Lawson 1-21A1 well, located in NE/4 SW/4, Section 21, Township 1S, Range 1W, Uintah Special Meridian, Duchesne County, Utah, for conversion to a Class II injection well. The proceeding will be conducted in accordance with Utah Admin. Rule R649-10, Administrative Procedures.

Selected zones in the upper Green River Formation will be used for water disposal by injection. The maximum requested injection pressure and rate will be determined based on fracture gradient information submitted by Homeland Gas & Oil, Inc.

Any person desiring to object to the proposed application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Gil Hunt, Associate Director, at P.O. Box 145801, Salt Lake City, Utah 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedure rule. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 16th day of December, 2009

STATE OF UTAH
DIVISION OF OIL, GAS & MINING

Gil Hunt
Associate Director

Homeland Gas & Oil, Inc.

Lawson 1-21A1
Cause No. UIC-359.1

Publication Notices were sent to the following:

Marie O'Keefe, Senior Regulatory Analyst
El Paso E & P
1099 18th St., Suite 1900
Denver, CO 80202

Uintah Basin Standard
268 S 200 E
Roosevelt, UT 84066
via e-mail ubs@ubstandard.com

Salt Lake Tribune
PO Box 45838
Salt Lake City, UT 84145
via e-mail naclegal@mediaoneutah.com

Duchesne County Planning
P.O. Box 317
Duchesne UT 84021-0317

Bruce Suchomel
US EPA Region 8
MS 8-P-W-GW
1595 Wynkoop Street
Denver, CO 80202-1129

Jean Sweet

Jean Sweet

Jean Sweet - RE: Notice of Agency Action - Homeland Gas & Oil, Inc. UIC 359.1

From: "NAC Legal" <naclegal@mediaoneutah.com>
To: "'Jean Sweet'" <jsweet@utah.gov>
Date: 12/16/2009 10:26 AM
Subject: RE: Notice of Agency Action - Homeland Gas & Oil, Inc. UIC 359.1

Ad #529814 is scheduled to run December 19.

Total cost is $135.00. Please check the ad in the paper.

Thank you,

Lynn Valdez
MediaOne of Utah,
a Newspaper Agency Company
4770 South 5600 West
West Valley City, Utah 84118
Ph.: 801-237-2720
Email: naclegal@mediaoneutah.com

From: Jean Sweet [mailto:jsweet@utah.gov]
Sent: Wednesday, December 16, 2009 9:25 AM
To: naclegal@mediaoneutah.com
Subject: Notice of Agency Action - Homeland Gas & Oil, Inc. UIC 359.1

To whom it May Concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: jsweet@utah.gov.

Please send proof of publication and billing for **account # 9001402352** to:

Division of Oil, Gas and Mining
PO Box 145801
Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet, Executive Secretary
Utah Div. of Oil, Gas & Mining
1594 West Temple, Suite 1210
Salt Lake City, UT
801-538-5329
jsweet@utah.gov

Jean Sweet - Notice of Agency Action - Homeland Gas & Oil, Inc. UIC 359.1

From: Jean Sweet
To: naclegal@mediaoneutah.com
Date: 12/16/2009 9:25 AM
Subject: Notice of Agency Action - Homeland Gas & Oil, Inc. UIC 359.1
Attachments: 20091216 Homeland Notice of Agency Action Lawson 1-21A1 UIC 359.1.pdf; 20091216 SL Newspaper Homeland Notice of Agency Action Lawson 1-21A1 UIC 359.1.doc

---

To whom it May Concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: jsweet@utah.gov.

Please send proof of publication and billing for **account # 9001402352** to:

Division of Oil, Gas and Mining
PO Box 145801
Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet, Executive Secretary
Utah Div. of Oil, Gas & Mining
1594 West Temple, Suite 1210
Salt Lake City, UT
801-538-5329
jsweet@utah.gov

From: Bonnie <bonnie@ubstandard.com>
To: <jsweet@utah.gov>
Date: 12/18/2009 12:58 PM
Subject: UIC-359.1

Jean,
Homeland Gas & Oil, LLC UIC-359.1 will run on December 22, 2009.
Thank you,

--
Bonnie Parrish
Uintah Basin Standard
268 South 200 East
Roosevelt, UT 84066
(435) 722-5131
(435) 722-4140 Fax
bonnie@ubstandard.com

Jean Sweet - Notice of Agency Action - Homeland Gas & Oil, LLC UIC-359.1

From: Jean Sweet
To: ubs@ubstandard.com
Date: 12/16/2009 9:22 AM
Subject: Notice of Agency Action - Homeland Gas & Oil, LLC UIC-359.1
Attachments: 20091216 UB Standard Homeland Notice of Agency Action Lawson 1-21A1 UIC 359.1.doc; 20091216 Homeland Notice of Agency Action Lawson 1-21A1 UIC 359.1.pdf

---

To whom it May Concern:
Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: jsweet@utah.gov

Please send proof of publication and billing to:

Division of Oil, Gas and Mining
PO Box 145801
Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet, Executive Secretary
Utah Div. of Oil, Gas & Mining
1594 West Temple, Suite 1210
Salt Lake City, UT
801-538-5329
jsweet@utah.gov

Return payment to:

268 S 200 E,
Roosevelt, Utah 84066

Uintah Basin Standard
Tel: 435-722-5131
www.ubstandard.com

Vernal Express
Tel: 435-789-3511
www.vernal.com

INVOICE

I N V O I C E

No: 50523

DIVISION OF OIL GAS & MINING
Rose Nolton
1594 W. N.TEMPLE STE 121
PO BOX 145801
SALT LAKE CITY. UT 84114-5801

Customer No.	SalesPerson	Invoice Date
2080	Parrish	12/23/2009

Date	Reference	Description	Quantity	Charge
12/22/2009	50523	UB-Legal Notice Notice of Agency Action Cause No. UIC-359.1□ Ran Dec 22, 2009	1.00	$85.60

Invoice Amount: $85.60

Thank you for your business!

2250|REB|GGUICADMIN|GF00|6131

AFFIDAVIT OF PUBLICATION

County of Duchesne,
STATE OF UTAH

I, Craig L. Ashby on oath, say that I am the PUBLISHER of the Uintah Basin Standard, a weekly newspaper of general circulation, published at Roosevelt, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue such newspaper for 1 consecutive issues, and that the first publication was on the 22 day of December, 20 09, and that the last publication of such notice was in the issue of such newspaper dated the 22 day of December, 2009.

Publisher

Subscribed and sworn to before me this 23 day of December, 2009

Bonnie Parrish

Notary Public

BONNIE PARRISH
NOTARY PUBLIC-STATE OF UTAH
471 N HILLCREST DR 415-5
ROOSEVELT, UTAH 84066
COMM. EXP. 3-31-2012

NOTICE OF AGENCY ACTION CAUSE NO. UIC-359.1

BEFORE THE DIVISION OF OIL, GAS AND MINING

DEPARTMENT OF NATURAL RESOURCES

STATE OF UTAH

IN THE MATTER OF THE APPLICATION OF HOMELAND GAS & OIL, INC. FOR ADMINISTRATIVE APPROVAL OF THE LAWSON 1-21A1 WELL, LOCATED IN SECTION 21, TOWNSHIP 1S, RANGE 1W, DUCHESNE COUNTY, UTAH, AS A CLASS II INJECTION WELL.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Homeland Gas & Oil, Inc. for administrative approval of the Lawson 1-21A1 well, located in NE/4 SW/4, Section 21, Township 1S, Range 1W, Uintah Special Meridian, Duchesne County, Utah, for conversion to a Class II injection well. The proceeding will be conducted in accordance with Utah Admin. Rule R649-10, Administrative Procedures.

Selected zones in the upper Green River Formation will be used for water disposal by injection. The maximum requested injection pressure and rate will be determined based on fracture gradient information submitted by Homeland Gas & Oil, Inc.

Any person desiring to object to the proposed application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Gil Hunt, Associate Director at P.O.

4770 S. 5600 W.
P.O. POX 704005
WEST VALLEY CITY, UTAH 84170
FED.TAX I.D.# 87-0217663

The Salt Lake Tribune | MEDIA One of Utah — A Newspaper Agency Company | Morning News

CUSTOMER'S COPY

PROOF OF PUBLICATION

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	DATE
DIV OF OIL-GAS & MINING, 1594 W NORTH TEMP #1210 P.O. BOX 145801 SALT LAKE CITY, UT 84114	9001402352	12/21/2009

ACCOUNT NAME	
DIV OF OIL-GAS & MINING,	
TELEPHONE	ADORDER# / INVOICE NUMBER
8015385340	0000529814 /
SCHEDULE	
Start 12/19/2009	End 12/19/2009
CUST. REF. NO.	
UIC-359.1	
CAPTION	
BEFORE THE DIVISION OF OIL, GAS AND MINI	
SIZE	
52 Lines	2.00 COLUMN
TIMES	RATE
2	
MISC. CHARGES	AD CHARGES
	TOTAL COST
	135.00

BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH
NOTICE OF AGENCY ACTION
CAUSE NO. UIC-359.1

IN THE MATTER OF THE APPLICATION OF HOMELAND GAS & OIL, INC. FOR ADMINISTRATIVE APPROVAL OF THE LAWSON 1-21A1 WELL, LOCATED IN SECTION 21, TOWNSHIP 1S, RANGE 1W, DUCHESNE COUNTY, UTAH, AS A CLASS II INJECTION WELL.

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Dated this 16th day of December, 2009

STATE OF UTAH
DIVISION OF OIL, GAS & MINING
/s/Gil Hunt
Gil Hunt
Associate Director

529814 UPAXLP

AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY CORPORATION LEGAL BOOKER, I CERTIFY THAT THE ATTACHED ADVERTISEMENT OF BEFORE THE DIVISION OF OIL, GAS AND MINI FOR DIV OF OIL-GAS & MINING, WAS PUBLISHED BY THE NEWSPAPER AGENCY CORPORATION, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET NEWS, DAILY NEWSPAPERS PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN UTAH, AND PUBLISHED IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH.

PUBLISHED ON Start 12/19/2009 End 12/19/2009

SIGNATURE Jenny Craft

DATE 12/21/2009

Notary Public
ELIZABETH G. CORDOVA
6462 West 4200 South
West Valley City, Utah 84128
My Commission Expires
January 16, 2010
State of Utah

THIS IS NOT A STATEMENT BUT A "PROOF OF PUBLICATION"
PLEASE PAY FROM BILLING STATEMENT

DUCHESNE COUNTY COMMISSION

Kent R. Peatross, Chairman; Ronald Winterton, Member; Kirk J. Wood, Member
P.O. Box 270
Duchesne, Utah 84021-0270
Phone (435) 738-1100
Fax (435) 738-5522

December 22, 2009

Mr. Gil Hunt, Associate Director
Utah Division of Oil, Gas & Mining
PO Box 145801
Salt Lake City, UT 84114-5801

RE: Proposed Homeland Gas & Oil, Inc. Class II Injection Well
Cause No. UIC-359.1

Dear Mr. Hunt:

Thank you for providing Duchesne County with a copy of the Notice of Agency Action associated with the subject injection well request.

Duchesne County has received telephone calls from two property owners in the area expressing concerns regarding the potential effects this injection well could have on groundwater quality in the area, which has no culinary water system.

As shown by the enclosed aerial photo, there is a dwelling on a 1.4 acre parcel, located roughly ¼ mile south of the subject well site. Also, to the southwest of this property, in the NW corner of Section 28, is located the Jessie Q. Lawson subdivision, consisting of six residential lots.

On December 21, 2009, the Commissioners met with representatives of El Paso Exploration and Production to discuss this proposal. They noted that the wastewater will be injected at about 6,500 feet below the surface, far below any domestic wells and groundwater aquifers. They also noted that DOGM will attach conditions to any injection well permit that will safeguard water supplies. We request that DOGM explain these safeguards to us so we can share them with concerned citizens.

RECEIVED
DEC 24 2009
DIV. OF OIL, GAS & MINING

If there are any questions regarding this letter, please contact Mike Hyde, Community Development Director, 435-738-1151.

Sincerely,

DUCHESNE COUNTY COMMISSIONERS

Mike Hyde
Community Development Director

Enclosure

pc: Carolyn Elder, Rt. 1, Box 1088, Roosevelt, UT 84066-9704
William Ingalls, 208 E 4800 South, Vernal, UT 84078-8865
Val Oman, El Paso E & P, PO Box 120, Altamont, UT 84001-0120

F:\DATA\PLANNING\MIKE\OGM Correspondence\Homeland Oil & Gas Injection Well.doc

RECEIVED
DEC 24 2009
DIV. OF OIL, GAS & MINING

RECEIVED
DEC 3 1 2009
DIV. OF OIL, GAS & MINING

December 28, 2009

William Ingalls
208 East 4800 South
Vernal, Utah 84078

Mr Gill Hunt, Associate Director
Utah Division of Oil, Gas and Mining
PO Box 145801
Salt Lake City, Utah 84114-5801

RE: Proposed Homeland Gas and Oil, Inc. Class II Injection Well
Cause No. UIC-359.1

Dear Mr. Hunt:

I am a property owner within a half mile radius of the subject well site. I have owned the property for about 10 years, prepairing it for a home and well at the time of my retirement. I have planted trees and shrubs, installed an irrigation system, and set aside space for the benefit of birds and wildlife.

We as landowners do not know about the safety of such wells, but friends and family tell me that this injection process has ruined many a freshwater well. My own conclusion has been that it will obviously be an on going risk for many years to come.

Be it so that I have not drilled my well yet. I'm probably not as nervous as my neighbors who have made this investment and are already depending on their fresh water wells. We have been told that the waste water will be injected below groundwater aquifers. I worry though, that at daily volumes as high as 2,000 barrels(84,000 gal.) or more, that over the years pressurized fluids may begin to rise into domestic water sources and may even create ground tremors.

I have come to enjoy my clear views of Kings Peak and a quiet corner that will probably serve as the primary hub for the delivery of huge amounts of wastewater to this site daily. Diesel truck traffic, dust and noise on this scale should just about put an end to anyones definition of country life and enjoyment.

Questions:

1.) How many trucks will be allowed to deliver wastewater to this site on a daily basis?

2.) Will truck delivery be 24 hours a day and 7 days a week?

3.) How many years do they intend to use this well for disposal of waste?

4.) Would Homeland Gas and Oil be willing to help monitor residential freshwater wells for pollution by periodic testing of residential well water and periodic analisis of company waste water?

Until questions can be resolved I will have to protest this application. I do thank you for listening and will be looking to hear from you.

Sincerely,

Wm. Ingalls

William Ingalls

Mark Reinbold - Lawson 1-21A1

From: "Borer, James M (Jim)" <Jim.Borer@ElPaso.com>
To: "markreinbold@utah.gov" <markreinbold@utah.gov>
Date: 1/6/2010 3:15 PM
Subject: Lawson 1-21A1
CC: "Brown, Devin L" <Devin.L.Brown@ElPaso.com>
Attachments: 1-21A1_SWD_aquitards2.pdf

Mark,
It was good talking to you on the phone last week. I told Dave Wheeler hello for you. In return, Dave told me to ask you what is the highest point in, say, Kentucky? Dave says you know the highest point in every state. Interesting, when and why did you ever learn them?

I finally got a chance to look at the basal seal for the proposed 1-21A1 injection perfs. There are four, 70'-120' thick shale-rich intervals (based on high gamma ray values) from 6700' to 7220' that will provide a good bottom seal for the injection interval .

However, given the poor cement above 7100' and Devon's overlapping upper Green River gas production 3-6 miles to the northwest, we are considering lowering our proposed injection perf interval to the middle Green River, between 8250' and 8950'. Please see the attached log. The proposed depths correlate to injection intervals in the nearby Harmston 1-32A1 and Ballard 2-15B1. I plan on contacting the Devon geologist ASAP to discuss potential issues and options. If prudent, I will pick and submit new perfs for the middle Green River early next week.

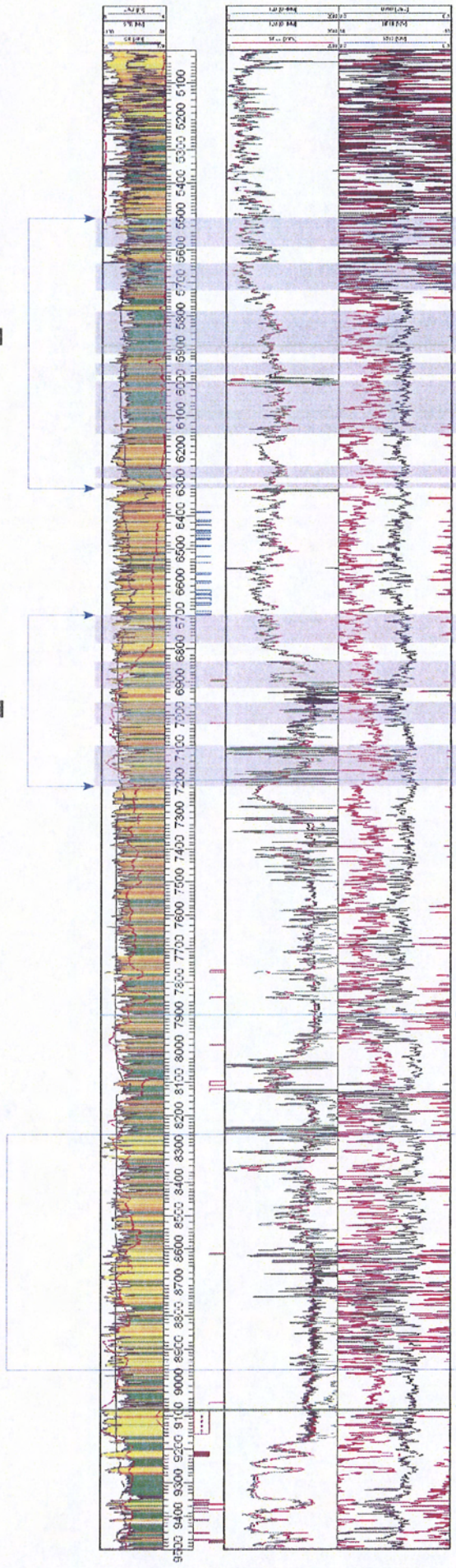
I originally did not like the middle Green River zone for water disposal since El Paso was evaluating some oil/gas shows (e.g., 9-4B1 recompletion) within the injection intervals. Now I'm beginning to think that the middle Green River is a better injection zone. It takes greater injection volumes, is less prospective due to oil quality issues, deeper and therefore will generate less of a drilling hazard and generally has better cement.

I'll talk to you next week since I will be in Altamont tomorrow and you are off Friday.
Thanks for your time,
Jim

Jim Borer
Senior Staff Geologist
El Paso E&P
1099 18th St., Suite 1900
Denver, CO 80202
Office (303) 291-6455
Fax (303) 291-6485
Cell: (303) 877-3110
Home: (303) 271-0917

****
THIS E-MAIL AND ANY MATERIALS TRANSMITTED WITH IT MAY CONTAIN CONFIDENTIAL OR PROPRIETARY MATERIAL FOR THE SOLE USE OF THE INTENDED RECIPIEN
****

LAWSON
1-21A1



RECEIVED
JAN 06 2010

JAN. 6, 10

Mr. Hunt

I own property only about 1500 feet from the Lawson Well you are talking about making into a disposal well. I am very opposed to this.

All that water injected into this well has to go somewhere & eventually it will come up after awhile. I have spent over $30,000.00 on my water well & I don't want an oil companies waste water to make it undrinkable.

If this water does contaminate my well it will make it so I can't sell my property because you won't be able to have a well for drinking, irrigation, etc.

Oil companies will not pay for damages either. They take it to court & keep it there for years till the working man runs out of money & can't fight anymore.

The road for this well is about 50' from my house & with trucks coming & going at all hours there will never be any quiet time anymore. Most people build in the country for peace & quiet. It will also chase most of the wildlife off from here. The deer, coyotes, fox, etc., will disappear.

There are too many cons for this

well to go in here. There are lots of places for these wells to go where there are no homes at. "Please" consider one of these places. There are at least 20 homes close to this site.

Sincerely,
Carolyn Elder
CAROLYN ELDER
Rt 1 Box 1088
Roosevelt, ut.
84066
435-722-3710

Date: 9 January 2010

To: Mr. Gill Hunt, Associate Director
Utah Division of Oil, Gas, and Mining
PO Box 145801
SLC, UT 84114-5801

From: David and Valerie Hudson Cassler
592 East 200 North
Orem, Utah 84097
801-225-2794
concerning our property at 801 W. North Crescent Road, Roosevelt, Utah

Re: Proposed Homeland Gas and Oil, Inc. Class II Injection Well Cause No. UIC-359.1

Dear Mr. Hunt:

Mr. Bill Ingalls has sent us a copy of the letter which he wrote to you on 28 December 2009, protesting this proposed injection well. My husband and I also have property within the half mile radius of that proposed well.

Mr. Ingalls raises some very pertinent and significant questions. Our land has water pooling on it in the spring because the water table is so high. No one can build a basement because of the high water table. We have a natural wetland, complete with reeds and cattails on our property. The ground is saturated with water. In light of these facts, I suspect Mr. Ingalls is justified in his concern that the injected water will at some point contaminate the aquifer from which all of us draw our drinking and culinary water.

At a minimum, it would be imperative that the company schedule regular testing (to be performed by a neutral, non-prejudiced third party testing company) to make sure this contamination does not occur.

Like Mr. Ingalls, we, too, wonder how often the trucks would be scheduled to make deliveries, and for how many years.

Until these questions and concerns have been addressed, we would have to add our voices to Mr. Ingalls' protest of this application.

Sincerely,

David Cassler

Valerie Hudson Cassler

Cc: William Ingalls

RECEIVED
JAN 11 2010
DIV. OF OIL, GAS & MINING

January 19, 2010

Mr. Gill Hunt, Associate Director
Utah Division of Oil, Gas and Mining
PO Box 145801
Salt Lake City, Utah 84114-5801

William Ingalls
208 East 4800 South
Vernal, Utah 84078
1435-789-0395

RE: Proposed Homeland Gas and Oil, Inc. Class II Injection Well
Cause No. UIC-359.1

Dear Mr. Hunt:

Again, I am a property owner within the proposed well site. Talking to a few neighbors and families residing along the North Crescent Road, a number of questions are being raised in concern of increased truck traffic including:

1) What kind of traffic (truck size, heavy equipment, rigs etc.) will be needed to supply and support activity at the injection site?

2) In what numbers?

3) What will the transportation corridors be for incoming and outgoing traffic to the injection site?

Aside from the risk of polluted aquafers and seismic tremors, exhaust, dust and noise, I think we worry most aboutthe danger. Many of us have children who play and ride their bikes in front of our houses on this road.

Speaking for myself and a few others I've had the opportunity in talking to, We oppose these effects and threats to the values of our properties and the quality of our daily lives. We need clear answers to our concerns.

Thanks for listening, we await your reply.

Sincerely,

B. Ingalls

Bill Ingalls

RECEIVED
JAN 20 2010
DIV. OF OIL, GAS & MINING

FORM 9

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: FEE
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME:
8. WELL NAME and NUMBER: LAWSON 1-21A1
9. API NUMBER: 4301330738
10. FIELD AND POOL, OR WILDCAT: BLUEBELL

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER
2. NAME OF OPERATOR: Homeland Oil & Gas - c/o El Paso E & P - agent
3. ADDRESS OF OPERATOR: 1099 18th St Ste 1900 CITY Denver STATE CO ZIP 80202 PHONE NUMBER: (303) 291-6417
4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1546 FSL & 1516 FWL COUNTY: Duchesne
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 21 1S 1W 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
2/15/2010	☐ 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: Gather data to convert to SWD
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

REVISION TO ORIGINAL FILING DATED 12/8/09.

OPERATOR REQUESTS APPROVAL TO OBTAIN DATA TO CONVERT THE SUBJECT WELL TO A SALT WATER DISPOSAL. THE FOLLOWING WORK IS PROPOSED:

1. PRESSURE TEST CASING
2. SQZ JOB
3. RUN BOND LOG
4. PERFORATE 8981 - 8642'
5. ACIDIZE PERFORATIONS
6. STEP RATE TEST TO ESTABLISH INJECTION PROFILE

[redacted]

Approved by the Utah Division of Oil, Gas and Mining

Date: 02-10-10

By: [signature]

NAME (PLEASE PRINT) Marie OKeefe - agent for Homeland oil & gas TITLE Sr. Regulatory Analyst

SIGNATURE Marie OKeefe - agent for Homeland O&G DATE 1/22/2010

(This space for State use only)

RECEIVED
JAN 25 2010
DIV. OF OIL, GAS & MINING

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

elpaso | Exploration & Production

January 22, 2010

Mr. Brad Hill
Utah DOGM
1594 West North Temple
Suite 1210
PO Box 145801
Salt lake City, UT 84114-5801

RE: Revision to Lawson 1-21A1 Salt Water Disposal Application

Dear Brad,
El Paso E&P Company is revising the proposed perforations and formation for the subject well. Based on phone conversations between Mark Reinbold of your office, and Devin Brown and Jim Borer of El Paso's office we are proposing to perforate the middle Green River formation at 8981'– 8642'.

Included in this packet:
1. Amended UIC Form 1
2. Amended Form 9 for Step Rate Test
3. Amended Procedure for conversion to SWD.
4. Revised Geologic Study
5. Affidavit of landowner notification.

Sincerely,

Marie OKeefe
Sr. Regulatory Analyst

RECEIVED
JAN 25 2010
DIV. OF OIL, GAS & MINING

El Paso E&P Company, L.P.
1099 18th Street, Suite 1900 Denver, Colorado 80202
tel 303.291.6400 fax 303.291.6487

UIC FORM 1

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

AMENDED PERFORATIONS

APPLICATION FOR INJECTION WELL

Name of Operator Homeland Gas & Oil c/o El Paso E & P - agent	Utah Account Number N 3130	Well Name and Number LAWSON 1-21A1
Address of Operator 1099 18th St #1900 CITY Denver STATE CO ZIP 80202	Phone Number (303) 291-6417	API Number 4301330738
Location of Well Footage : 1546 FSL & 1516 FWL County : DUCHESNE QQ, Section, Township, Range: NESW 21 1S 1W State : UTAH		Field or Unit Name BLUEBELL Lease Designation and Number FEE

Is this application for expansion of an existing project?	Yes ☑	No ☐
Will the proposed well be used for: Enhanced Recovery?	Yes ☐	No ☑
Disposal?	Yes ☑	No ☐
Storage?	Yes ☐	No ☑
Is this application for a new well to be drilled?	Yes ☐	No ☑
If this application is for an existing well, has a casing test been performed?	Yes ☐	No ☑
Date of test: _____		

Proposed injection interval: from 8,981 to 8,642

Proposed maximum injection: rate 2,000 bpd pressure STEP RATE TEST psig

Proposed injection zone contains oil ☐, gas ☐, and / or fresh water ☐ within ½ mile of the well.

List of attachments: 1/2 mile radius plat, surface owners, Utah water rights, form 9 plus attachments, disposing well list, geological data, cross sections and maps.

ATTACH ADDITIONAL INFORMATION AS REQUIRED BY CURRENT UTAH OIL AND GAS CONSERVATION GENERAL RULES

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

Name (Please Print) Marie OKeefe - agent for Homeland gas & oil Title Sr. Regulatory Analyst

Signature Marie OKeefe - Agent for Homeland O&G Date 1/22/2010

RECEIVED
JAN 25 2010
DIV. OF OIL, GAS & MINING

(5/2002)

FORM 9

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

5. LEASE DESIGNATION AND SERIAL NUMBER: FEE

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT 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.

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

8. WELL NAME and NUMBER: LAWSON 1-21A1

2. NAME OF OPERATOR: Homeland Oil & Gas - c/o El Paso E & P - agent

9. API NUMBER: 4301330738

3. ADDRESS OF OPERATOR: 1099 18th St Ste 1900 CITY Denver STATE CO ZIP 80202

PHONE NUMBER: (303) 291-6417

10. FIELD AND POOL, OR WILDCAT: BLUEBELL

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1546 FSL & 1516 FWL

COUNTY: Duchesne

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 21 1S 1W

STATE: UTAH

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

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☐ 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: Gather data to convert to SWD
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

REVISION TO ORIGINAL FILING DATED 12/8/09.

OPERATOR REQUESTS APPROVAL TO OBTAIN DATA TO CONVERT THE SUBJECT WELL TO A SALT WATER DISPOSAL. THE FOLLOWING WORK IS PROPOSED:

1. PRESSURE TEST CASING
2. SQZ JOB
3. RUN BOND LOG
4. PERFORATE 8981 - 8642'
5. ACIDIZE PERFORATIONS
6. STEP RATE TEST TO ESTABLISH INJECTION PROFILE
7. RUN PACKER AND 4-1/2" COATED TUBING 8600'

NAME (PLEASE PRINT) Marie OKeefe - agent for Homeland oil & gas

TITLE Sr. Regulatory Analyst

SIGNATURE Marie Okeefe - agent for Homeland O&G

DATE 1/22/2010

(This space for State use only)

RECEIVED
JAN 25 2010
DIV. OF OIL, GAS & MINING

(5/2000)

(See Instructions on Reverse Side)

elpaso Exploration & Production

Convert to SWD Well
Lawson 1-21A1

Lat. 40.378; Long. 110.004
Sec. 21, T1S-R1W
API # 4301330738
Bluebell Field
Duchesne County, Utah

Version #2

Prepared by: _____ 1/21/10
Devin Brown date

Approved by: _____ _____
Gary Lamb date

Approved by: _____ _____
Mike Vennes date

Distribution (Approved copies):
Devin Brown
Gary Lamb
Mike Vennes
Jim Borer
Altamont Well File
Denver Well File (Central Records)

SWD Conversion Procedure
Lawson 1-21A1
AFE # 144931
AFE Amt: $572,800

COMPANY PERSONNEL

Title	Name	Office	Mobile	e-mail
Engineering Manager	Mike Vennes	(303) 291-6440	(720) 545-7280	Mike.Vennes@ElPaso.com
Geologist	Jim Borer	(303) 291-6455	(303) 877-3110	Jim.Borer@ElPaso.com
Production Engineer	Devin Brown	(303) 291-6432	(303) 775-2130	Devin.L.Brown@ElPaso.com
Production Foreman	Gary Lamb	(435) 454-4224	(435) 823-1443	Gary.X.Lamb@ElPaso.com

Tubular Data

String	Description	Burst (psi) 100%	Coll (psi) 100%	Body Yield (Mlbs)	Jt Yield (Mlbs)	ID (in.)	Drift (in.)	TOC
Surface Casing	9-5/8" 40# @ 2,706' (grade is unknown and assumed to be J-55)	3950	2570	630	452	8.835	8.679	surface
Intermediate Casing	7" 26# and 32# @ 11,368' (grade is unknown and assumed to be N-80)	7240 9060	5410 8600	604 745	519 672	6.276 6.094	6.151 5.969	5900' from CBL on 6/20/1983
Production Liner	5" 18# P-110 @ 11,052'-14,500'	13940	13470	580	495	4.276	4.151	unkn
Production Tubing	2-7/8" 6.5# N-80 EUE 8rd	10570	11160		145	2.441	2.347	
Proposed Injection Tubing	2-7/8" 6.5# Husteel ERW J55 R-2 EUE T&C internally coated IPC 1505 @ 6,235'	7260	7680		99.66	2.441	2.347	
Work String	2-7/8" 6.5# N-80 EUE 8rd	10570	11160		145	2.441	2.347	

Notes:
Well was owned by Homeland Gas & Oil, Ltd. It spud 3-20-1983 and was completed 6-26-1983. It is assumed from the State records that it has been shut-in since January, 1989 at which time it was planned to P&A. That work was never performed. The purpose of this event is to convert the well to a salt water disposal (SWD) well in the middle Green River formations.

SWD Conversion Procedure
Lawson 1-21A1

Procedure:

1. MIRU WO rig. Test rig anchors. ND wellhead & NU BOPs. Release R-3 packer at 9157' and TOOH with 2-7/8" production tubing string.

2. PU and TIH with a 6" bit and 7" casing scraper on 2-7/8" 6.5#/ft N-80 tubing and TIH to 9080'. TOOH.

3. TIH with 7" CIBP and set @ 9080'. RU Cementers and spot 50' (10 sks) Class G cement on top of CIBP. PUH 10 jts and reverse clean. TOOH standing back. WOC overnight.

4. RU slickline and verify PBTD. RD slickline.

5. Pressure test casing to 1,000 psi for 30 minutes. If casing does not test then TIH with packer and tubing and locate leak(s). Once leak(s) is isolated consult with Denver office for plans to repair.

6. RU perforators and perforate middle Green River with 3-3/8" TAG gun loaded 3 spf, 120 deg phased w/ 22.7 gram premium charges as follows:

SWD Conversion Procedure

Lawson 1-21A1

Open Hole Reference Log: Compensated Neutron Formation Density
(Run 1 - 5/3/1983)

top	bot	thick (H)	shots	phi	phiH
8642	8648	6	18	0.063	0.378
8664	8670	6	18	0.21	1.26
8680	8692	12	36	0.114	1.368
8716	8720	4	12	0.095	0.38
8730	8734	4	12	0.129	0.516
8742	8746	4	12	0.195	0.78
8754	8758	4	12	0.21	0.84
8762	8763	1	3	0.104	0.104
8791	8793	2	6	0.178	0.356
8796	8798	2	6	0.222	0.444
8833	8836	3	9	0.079	0.237
8841	8843	2	6	0.216	0.432
8855	8860	5	15	0.066	0.33
8873	8877	4	12	0.115	0.46
8884	8886	2	6	0.096	0.192
8890	8892	2	6	0.102	0.204
8904	8908	4	12	0.142	0.568
8923	8928	5	15	0.075	0.375
8934	8938	4	12	0.104	0.416
8944	8952	8	24	0.093	0.744
8978	8981	3	9	0.101	0.303
21	**339**	**87**	**261**	**0.129**	**10.687**
zones	**gross**	**net**	**shots**	**ave phi**	**phiH**
				0.123	
				thick wt. ave	

ACIDIZE PERFS: 8855'-8981'

7. TIH with treating packer and RBP on 2-7/8" tubing. Set RBP at 9020' and packer at 8845'. Pressure annulus to 500 psi. Pump **8000** gallons 15% HCl acid at 10-15 bpm. Maximum surface treating pressure is 5,000 psi. Flush acid to bottom perf plus 10 bbls over with 2% KCl substitute water. Acid and water to contain 2.0 gpt MA-844. Monitor and record acid job with computer van setup to record data at 1.0 second intervals. Record ISIP, 5, 10, 15 minute pressure decline.

ACIDIZE PERFS: 8791'-8843'

8. Release packer and retrieve plug at 9020'. PUH and set RBP at 8845' and treating packer at 8770'. Pressure annulus to 500 psi. Pump **2000** gallons 15% HCl acid at 10-15 bpm. Maximum surface treating pressure is 5,000 psi. Flush acid to bottom perf plus 10 bbls over with 2% KCl substitute water. Acid and water to contain 2.0 gpt MA-844. Monitor and record acid job with computer van setup to record data at 1.0 second intervals. Record ISIP, 5, 10, 15 minute pressure decline.

ACIDIZE PERFS: 8716'-8763'

9. Release packer and retrieve plug at 8845'. PUH and set RBP at 8770' and treating packer at 8700'. Pressure annulus to 500 psi. Pump **5000** gallons 15% HCl acid at 10-15 bpm. Maximum surface treating pressure is 5,000 psi. Flush acid to bottom perf plus 10 bbls over with 2% KCl substitute water. Acid and water to contain 2.0 gpt MA-844. Monitor and record acid job with computer van setup to record data at 1.0 second intervals. Record ISIP, 5, 10, 15 minute pressure decline.

ACIDIZE PERFS: 8642'-8692'

10. Release packer and retrieve plug at 8770'. PUH and set RBP at 8700' and treating packer at 8600'. Pressure annulus to 500 psi. Pump **5000** gallons 15% HCl acid at 10-15 bpm. Maximum surface treating pressure is 5,000 psi. Flush acid to bottom perf plus 10 bbls over with 2% KCl substitute water. Acid and water to contain 2.0 gpt MA-844. Monitor and record acid job with computer van setup to record data at 1.0 second intervals. Record ISIP, 5, 10, 15 minute pressure decline.

11. **Shut down overnight (8-12 hours) to allow injection pressure from acid jobs to bleed off prior to performing Injection Test.**

INJECTION TEST: ALL ZONES

12. Release packer, retrieve plug at 8700' and TOOH. TIH and set treating packer at 8600'. Test annulus to 500 psi and bleed off. Monitor and record annulus pressure during injection test. Pump Injection Step Rate Test according to the attached schedule. **If well is on a vacuum then load hole at no more than 0.50 bpm.** (If hole is loaded at a high pump rate then the fracture will initiate once the hole is loaded.) Fluid to consist of 2% KCl substitute water with 2.0 gpt MA-844. Monitor and record injection test with computer van setup to record data at 1.0 second intervals. After shut down record pressure decline for 60 minutes or until well goes on a vacuum. Send data to Devin Brown (Devin.L.Brown@elpaso.com) for analysis.

13. Swab test zones and begin catching water samples after 1X bottoms up. Discuss number of samples to catch with Denver Office. Samples are to be labeled and sent to Chad Horrocks for analysis.

14. TOOH with packer laying down 2-7/8" tubing.

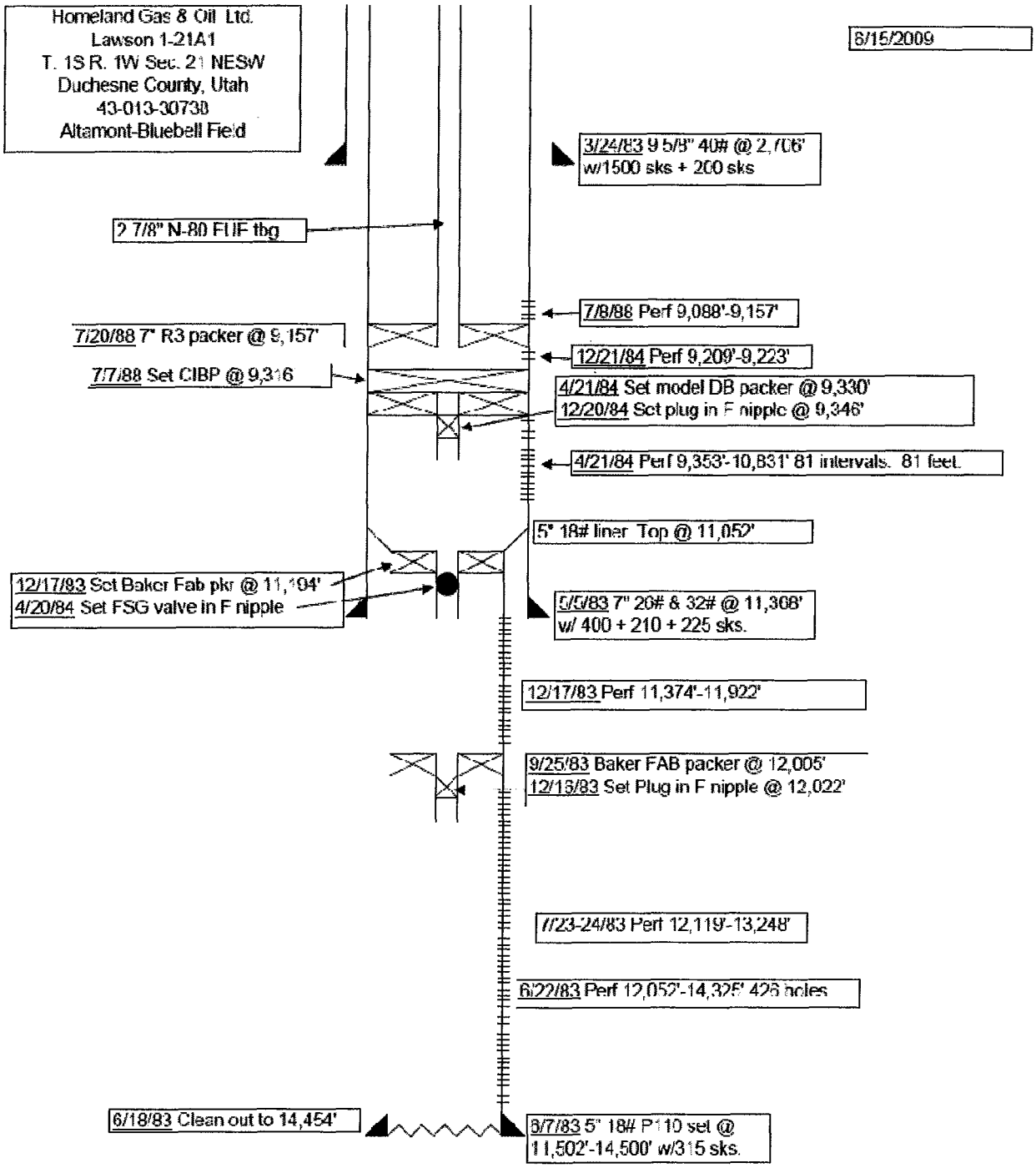
15. TIH with packer and 2-7/8" coated production tubing. Set packer at 8600'. RU pump truck, test annulus to 1,000 psi for 10 minutes. RD pump truck.

16. ND BOP's and NU wellhead. RDMO workover rig, release all rental equipment and turn well over to production department.

Pump Schedule for Step Rate Test:

Stage Number	Fluid Description	Clean Volume	Bttmhole Slurry Rate	Slurry Volume		Elapsed Time		Fluid Percentage
				Stage	Cum.	Stage	Cum.	Stage
		(gals)	(bpm)	(gals)	(gals)	(min)	(min)	(%)
1	Water	50	0.50	50	50	2.38	2.38	0.90%
2	Water	100	1.00	100	150	2.38	4.76	1.80%
3	Water	200	2.00	200	350	2.38	7.14	3.60%
4	Water	300	3.00	300	650	2.38	9.52	5.41%
5	Water	400	4.00	400	1,050	2.38	11.90	7.21%
6	Water	500	5.00	500	1,550	2.38	14.29	9.01%
7	Water	600	6.00	600	2,150	2.38	16.67	10.81%
8	Water	700	7.00	700	2,850	2.38	19.05	12.61%
9	Water	800	8.00	800	3,650	2.38	21.43	14.41%
10	Water	900	9.00	900	4,550	2.38	23.81	16.22%
11	Water	1,000	10.00	1,000	5,550	2.38	26.19	18.02%
TOTALS	total volume =	5,550		5,550		26.19		100.00%

SWD Conversion Procedure
Lawson 1-21A1

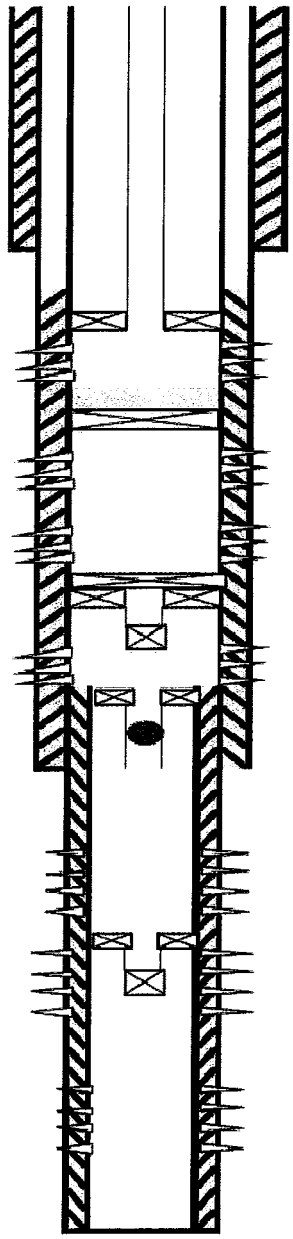


SWD Conversion Procedure
Lawson 1-21A1

WELL NAME: LAWSON 1-21A1

PROPOSED SWD

GR: 5352'
KB: not listed
API: 4301330738
SEC 21, T1S, R1W



SURFACE	9-5/8"	40#	uknwn	1700 SKS	2706'

TOC @ 5900' from CBL 6/20/1983
2-7/8" internally coated tubing with packer @ 8600'

PROPOSED SWD PERFS: 8642'-8981'

PROPOSED CIBP @ 9080' W/ 50' CEMENT ON TOP

Perfs: 9089'-9157' 7/8/88

Perfs: 9209'-9223' 12/21/84
CIBP @ 9316' set 7/7/88
Model DB Packer @ 9330' set 4/21/84 & set plug in F Nipple @ 9346' 12/20/84

Perfs: 9353'-10831' (81 feet) 4/21/84

Baker FAB packer @ 11194' set 12/17/83 and set FSG valve in F Nipple 4/20/84

TOL	5"	18#	P-110	315 sks	11052'
INTERMEDIATE	7"	26 & 32#	uknwn	835 sks	11368'

Perfs: 11374'-11922' 12/17/83

Baker FAB packer @ 12005' set 9/25/83 and set plug in F Nipple @ 12022' on 12/16/83

Perfs: 12119'-13248' 7/23/83

Perfs: 12052'-14325' (426 holes) 6/22/83

PBTD	14454'
TD	14500'

NOTE: NOT TO SCALE

Lawson 1-21A1 SWD Conversion
Geologic Recommendation

El Paso E&P proposes to take over plugging liability on the Homeland Gas & Oil Lawson 1-21A1 and convert it to a salt water disposal (SWD) well. The well first produced in 1983 and has cumulative production of 21 MBO and 11.6 MMCF from the Wasatch and lower Green River Formations. Existing perforations span 9209' to 14325'. The well was originally shut-in 1987. Unsuccessful attempts were made to return the well to production in 1988 and 2000 based on short-lived production (DOGM database). The well is located in the east part of the greater Altamont-Bluebell-Cedar Rim field (Section 21, T1S, R1W), just southwest of the crest of the Bluebell anticline. Nearby operators include Devon, Quinex, Flying-J (now El Paso) and Homeland.

A structure map for the top of the lower Green River Formation (TGR3 marker) shows that strata dips northwest (327° azimuth) at about 2.4° due to local influence of the Bluebell flexure. Away from the Bluebell nose, dips swing back to the north (~10 degree azimuth) and increase slightly to 3-4 degrees. Surface geology consists of Quaternary (Pleistocene) pediment underlain by the Dry Gulch Creek Member (Tdd) of the Duchesne River Formation, which suggests an additional 1200-1500' of Duchesne River Formation (Brennan Basin Member) in the subsurface above the Uinta, Green River and Wasatch formations.

The location is 5.5 miles north of the town of Roosevelt, along a regional high in the Base of the Moderately Saline Ground Water (BMSGW), as mapped by Howell and others (1987). Howell's map suggests a 4910' elevation (sea-level datum) for the BMSGW which equates to a measured depth of ~463' (kb datum = 5373') in the Lawson 1-21A1. The Howell map is a first approximation of the BMSGW. The map has known limitations and is currently being reevaluated as part of a Utah State Geologic Survey project. A deeper (800-1355' measured depth) BMSGW may be warranted based on simply picking the base of "fresh" water from resistivity logs in offset wells. Unfortunately, few wells have logs through the shallow section so the extrapolation is an approximation.

Proposed injection perforations for the Lawson 1-21A1 SWD conversion span a 339' gross interval in the middle Green River Formation from 8642' to 8981' and include 87 net feet of perforations. The middle Green River injection interval is chosen to limit injection into prospective lower and upper Green River oil and gas zones and to keep injection far below the base of moderately saline ground water. Considering the deepest (1355') estimate for the BMSGW, the injection zone will be at least 7287' below the BMSGW. The proposed injection interval targets a sand-rich interval near the base of the middle Green River Formation above the regional TGR3 marker. Twenty-one, 2-12 ft thick intervals are targeted for injection. Porosity of the individual intervals ranges from 6-22%, with a thickness-weighted average of 12.3% and 10.6 ft phi*H. Similar intervals are used for disposal in the 1-32A1 and 2-15B1 SWD wells.

Proposed Injection Perforations

top	bot	thick (H)	shots	phi	phiH
8642	8648	6	18	0.063	0.378
8664	8670	6	18	0.21	1.26
8680	8692	12	36	0.114	1.368
8716	8720	4	12	0.095	0.38
8730	8734	4	12	0.129	0.516
8742	8746	4	12	0.195	0.78
8754	8758	4	12	0.21	0.84
8762	8763	1	3	0.104	0.104
8791	8793	2	6	0.178	0.356
8796	8798	2	6	0.222	0.444
8833	8836	3	9	0.079	0.237
8841	8843	2	6	0.216	0.432
8855	8860	5	15	0.066	0.33
8873	8877	4	12	0.115	0.46
8884	8886	2	6	0.096	0.192
8890	8892	2	6	0.102	0.204
8904	8908	4	12	0.142	0.568
8923	8928	5	15	0.075	0.375
8934	8938	4	12	0.104	0.416
8944	8952	8	24	0.093	0.744
8978	8981	3	9	0.101	0.303
21	**339**	**87**	**261**	**0.129**	**10.687**
zones	**gross**	**net**	**shots**	**ave phi**	**phiH**
				0.123	
				thick wt. ave	

The basal aquitard is a regional lacustrine shale from 8984'-9086' at the base of the middle Green River, just above the TGR stratigraphic marker. The TGR3 marks the top of the prospective oil and gas zones in the lower Green River. Several nearby recompletion tests the middle Green River, above the TGR3 (e.g. 9-4B1), have not proved to be economic due to poor oil quality.

A series of middle and upper Green River lacustrine shale-rich intervals (8543'-8592', 8329'-8442', 7960'-8257 Mahogany Shale) provide an upper seal to the injection zone and protect upper Green River gas production. Upper Green River gas production occurs 3-6 miles northwest at the crest of the Bluebell anticline. The producing intervals are predominantly above the 652GRNT1 stratigraphic marker, ~700' above the regional Mahogany Shale; with the best gas production more than 1200' above the Mahogany marker (652GRMHB).

The overlying Uinta Formation is approximately 3800 ft thick and consists of an ~1100' basal shale-dominated interval marking the transition from the lacustrine Green River to the overlying fluvio-deltaic and alluvial clastic deposits of the lower Uinta Formation. The lower Uinta consists of 1200' of stacked, coarsening-up delta cycles overlain by 1500'-2000' of floodplain mudstone, siltstone, dispersed sandstone channels and rare lacustrine mudstone. Towards the top of the Uinta Formation a widespread mudstone interval interpreted as semi-regional lacustrine event is followed by another 1000' thick coarsening up fluvio-deltaic interval that grades and interfingers with the Duchesne River Formation. In short, the injection interval is separated from the BMSGW by three major thick mudstone-dominated intervals that are likely aquitards.

It is critical to have a regional understanding of SWD perforations and injection histories in order to predict water flows and decrease downtime during drilling operations throughout the Altamont-Bluebell field. A cross section through 10 (seven active and three P&A'd) SWD wells near the proposed Lawson 1-21A1 SWD conversion show a broad spectrum of previous injection horizons, ranging from 2045 ft in the 2-26A2 SWD to 9060 ft in the 1-32A1.

Five of the nearby SWD wells inject into shallow (1900'-3400') intervals in the Duchesne River Formation and/or upper most Uinta Formation. These injection zones are close to, or above, the base of the moderately saline groundwater as defined by Howells, et al. (1987). Three of these shallow injector wells are active and two are P&A'd.

Three SWD wells inject into the middle Green River Formation from ranging from 7716'-9468'. The Harmston 1-32A1 is the closest active SWD well to the proposed Lawson 1-21A1 SWD conversion. The 1-32A1 is operated by Water Disposal, Inc. The injection interval is from 8200'-9060' and spans a prospective oil and gas interval with mudlog shows in the middle Green River Formation. Two additional nearby SWD wells (Devon's 2-15B1 and 4-11A2) inject into similar lower-middle Green River Formation zones. The middle Green River injection zones have made very good SWD wells with injection rates of up to 70,000 barrels of water per month (2250 BWPD). El Paso recently tested a 2500 unit gas show from 8503'-8533' in the nearby Ute Tribal 9-4B1, that is within the overall 1-32A, 2-15B1 and 4-11A2 injection intervals. The test had an initial production of 110 BOPD; however, rapid production decline and poor oil quality (high asphaltenes) made the project uneconomic. Cumulative production from the test is 5 MBO, with current production ~ 4BOPD, suggesting the well will soon be shut in.

Two SWD wells shown on the cross section have upper Green River injection zones. The Victor Brown 1 (far left on SWD section) was P&A'd in October of 1990; whereas the Davis 1-33A1E (far right on SWD section) was recently permitted as a class II injection well by Flying J Oil and Gas Inc. Upper Green River injection horizons. Originally, in an attempt to protect potential middle Green River oil plays, similar injection zones were considered for the 1-21A1 conversion. However, the disappointing results of the 9-4B1 middle Green River recompletion (which tested one of the best MGR mudlog shows in the area), the higher injection rates of middle Green River SWD wells and the need to

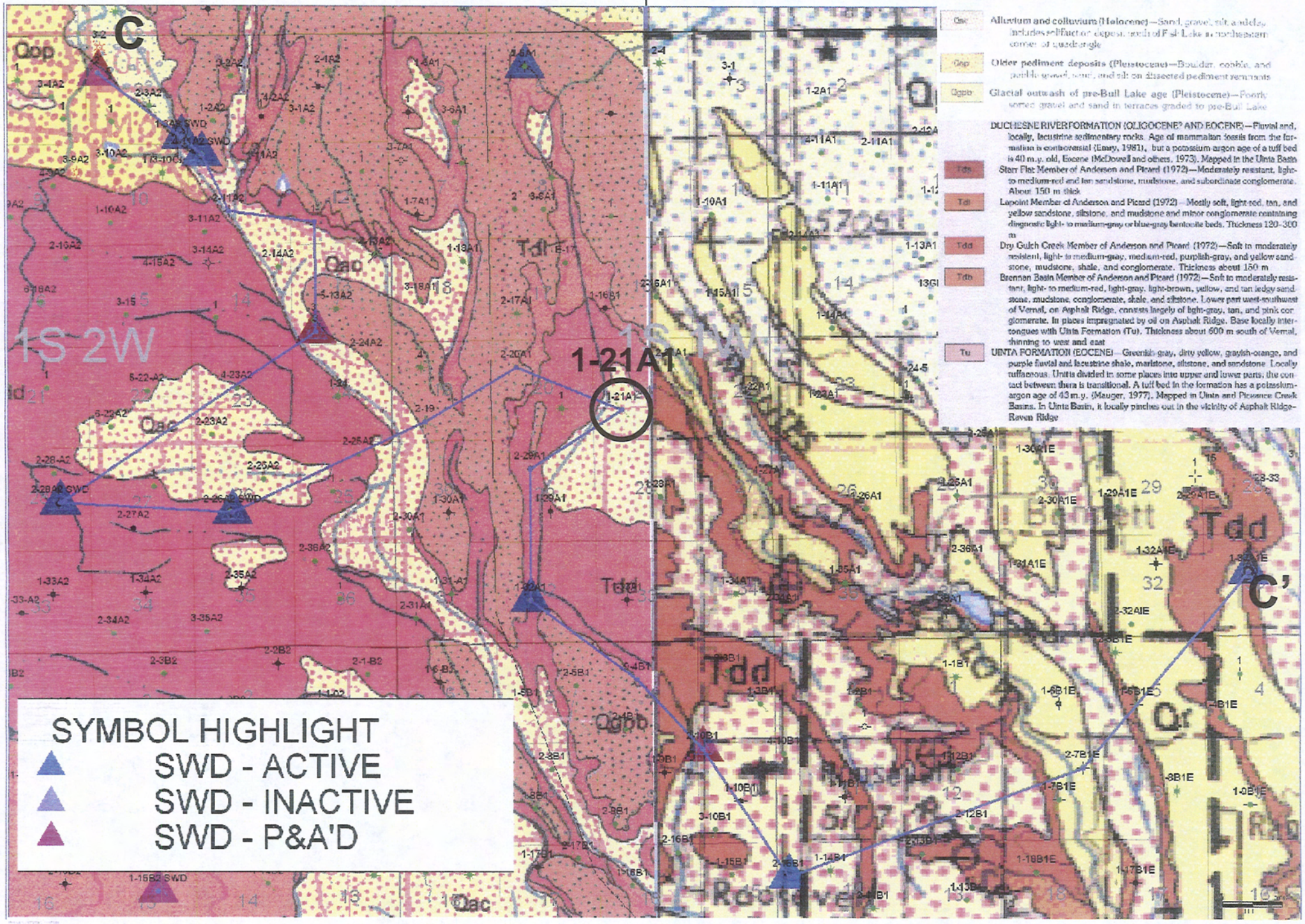
protect nearby economic upper Green River gas production suggest that the lower Green River is a more appropriate injection zone. In addition, potential upper Green River injection horizons in the 1-21A1 have poor cement bond and would require cement-squeeze work. This is generally true of the upper versus lower Green River intervals. Lastly, from a drilling hazard standpoint, it is much easier to control water flows from deeper injection horizons.

Sand-rich zones within the lower Uinta fluvial-deltaic interval (5000'-5240' or 4300'-4700') are potential alternate injection horizons if the permeability/injectivity of the zones proposed above are not adequate or the formation water chemistry is not compatible with the disposal water. These alternate intervals are stratigraphically equivalent to injection horizons being proposed for the Kendall 1-12A2, an additional SWD conversion candidate recently submitted for permit.

Jim Borer
Senior Staff Geologist
1/21/2010

Surface Geology

Salt Lake City 1 x 2 degree Quadrangle | Vernal 1 x 2 degree Quadrangle



AFFIDAVIT OF NOTICE OF REVISION TO APPLICATION FOR INJECTION

Catherine L. Hammock personally appeared before me, and, being duly sworn, deposes and says:

1. My name is Catherine L. Hammock. I am a Sr. Staff Landman for El Paso E&P Company, L.P., whose address is 1099 18th Street, Denver, Colorado 80202 ("El Paso").

2. El Paso is the designated Agent for Homeland Gas & Oil, Inc. with respect to the Lawson 1-21A1 well (the "Well") located in the NE/4SW/4 of Section 21, Township 1 South, Range 1 West, Duchesne County, Utah, and matters required to convert the Well to a saltwater disposal well.

3. I certify that a notice of the request to revise the application for injection to change the perforation interval and formation has been sent by certified mail to the owners, operators, and surface owners within a one-half mile radius of the Well.

FURTHER AFFIANT SAYETH NOT.

Catherine L. Hammock

Catherine L. Hammock

ACKNOWLEDGMENT

STATE OF COLORADO §
§
CITY AND COUNTY OF DENVER §

Before me, a Notary Public, in and for this state, on this 22nd day of January, 2010, personally appeared Catherine L. Hammock, to me known to be the identical person who executed the within and foregoing instrument, and acknowledged to me that she executed the same as her own free and voluntary act and deed for the uses and purposes therein set forth.

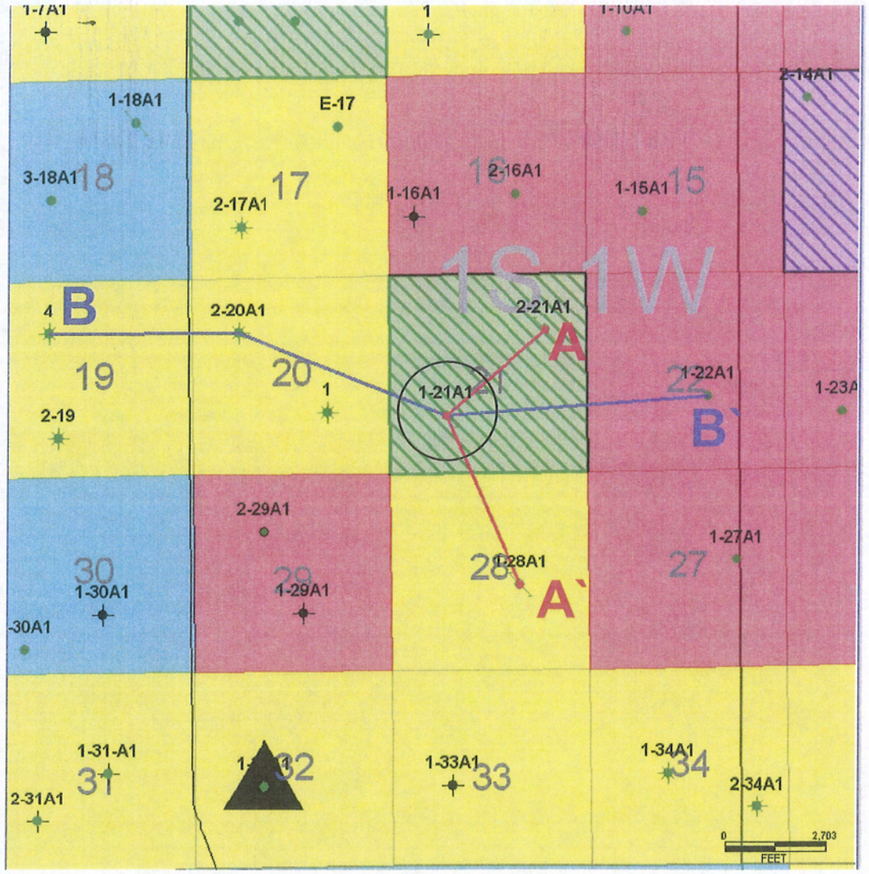
Ranae L. Johnson

NOTARY PUBLIC

My Commission Expires:

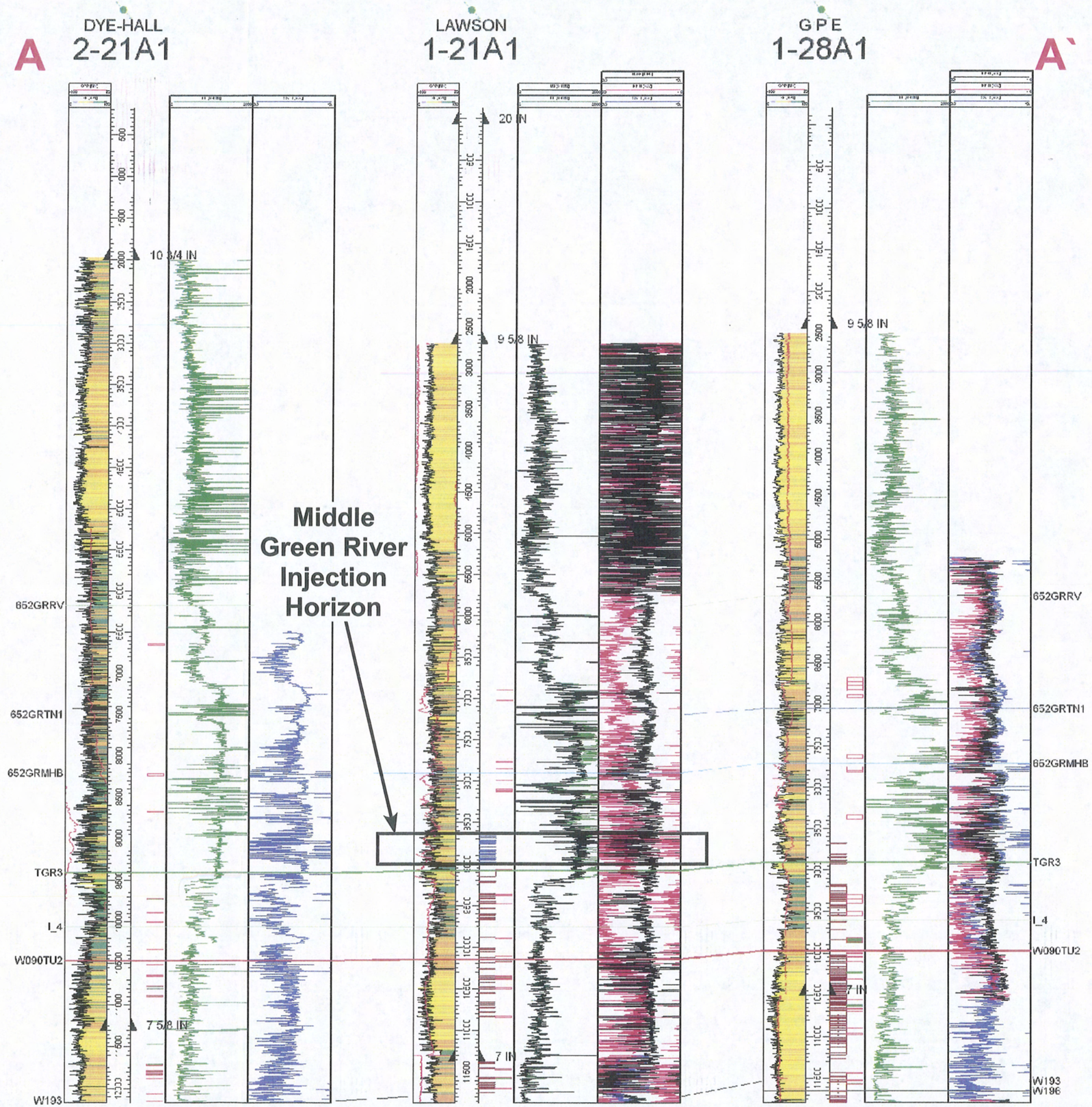
RANAE L. JOHNSON
NOTARY PUBLIC
STATE OF COLORADO

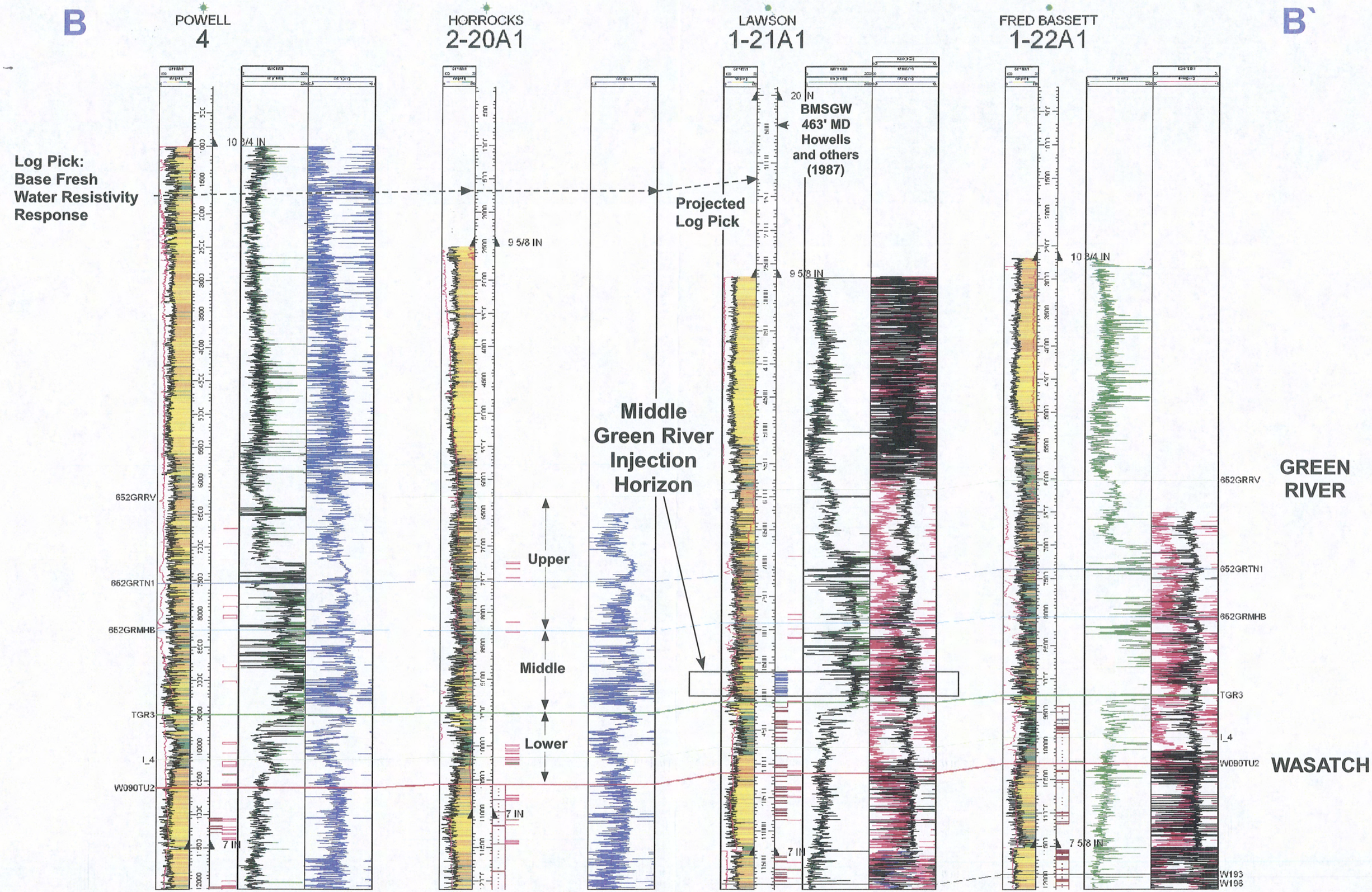
My Commission Exoires 09-26-2010



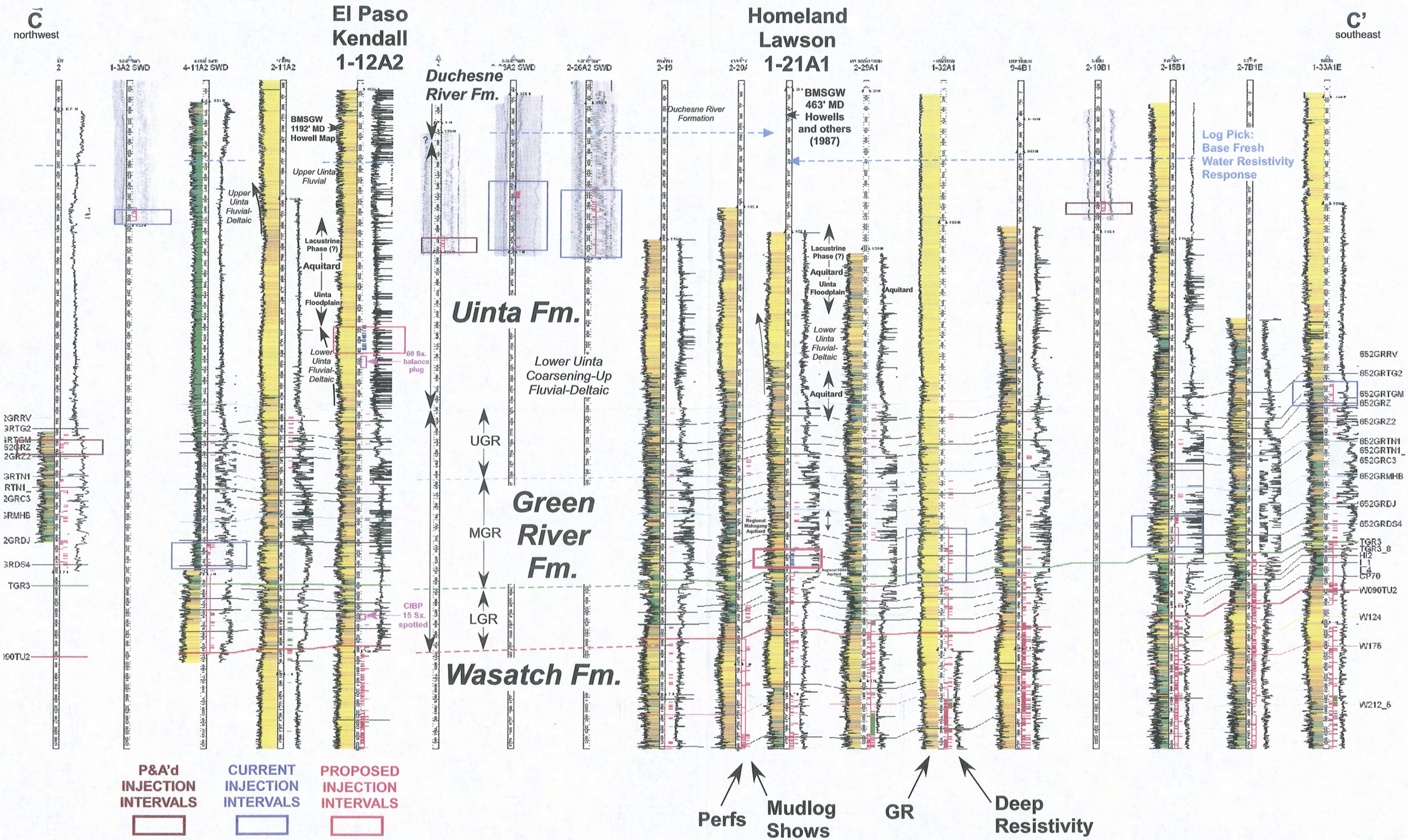
ALTAMONT OPERATORS

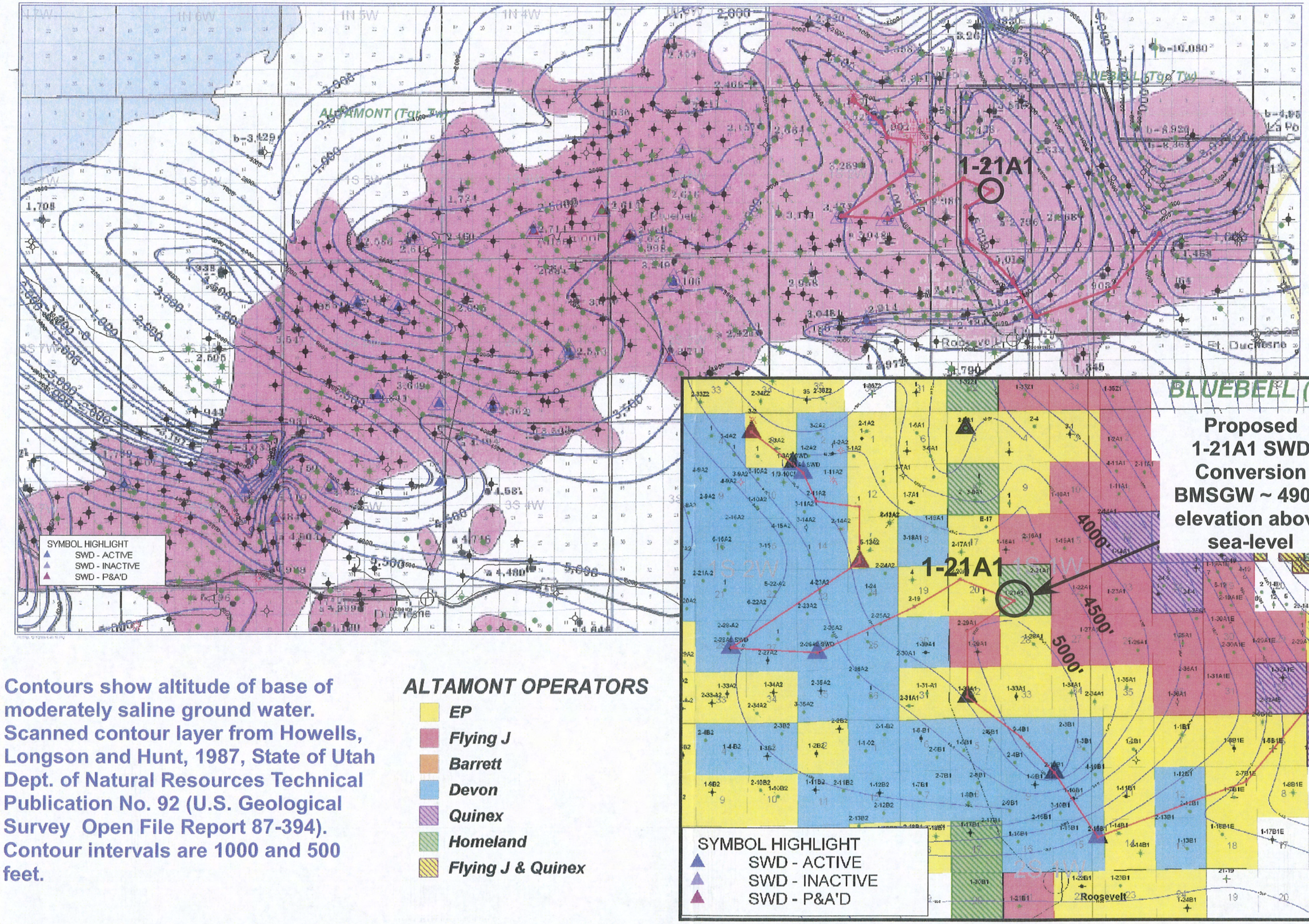
- El Paso
- Flying J (Now El Paso)
- Barrett
- Devon
- Quinex
- Homeland
- Flying J & Quinex




B
B`
POWELL
4
HORROCKS
2-20A1
LAWSON
1-21A1
FRED BASSETT
1-22A1
Log Pick:
Base Fresh
Water Resistivity
Response
10 3/4 IN
9 5/8 IN
7 IN
20 IN
BMSGW
463' MD
Howells
and others
(1987)
Projected
Log Pick
Middle
Green River
Injection
Horizon
Upper
Middle
Lower
652GRRV
652GRTN1
652GRMHB
TGR3
I_4
W090TU2
7 5/8 IN
W193
W196
GREEN
RIVER
WASATCH

Offset SWD Well Analysis for Proposed Bluebell El Paso SWD Conversions



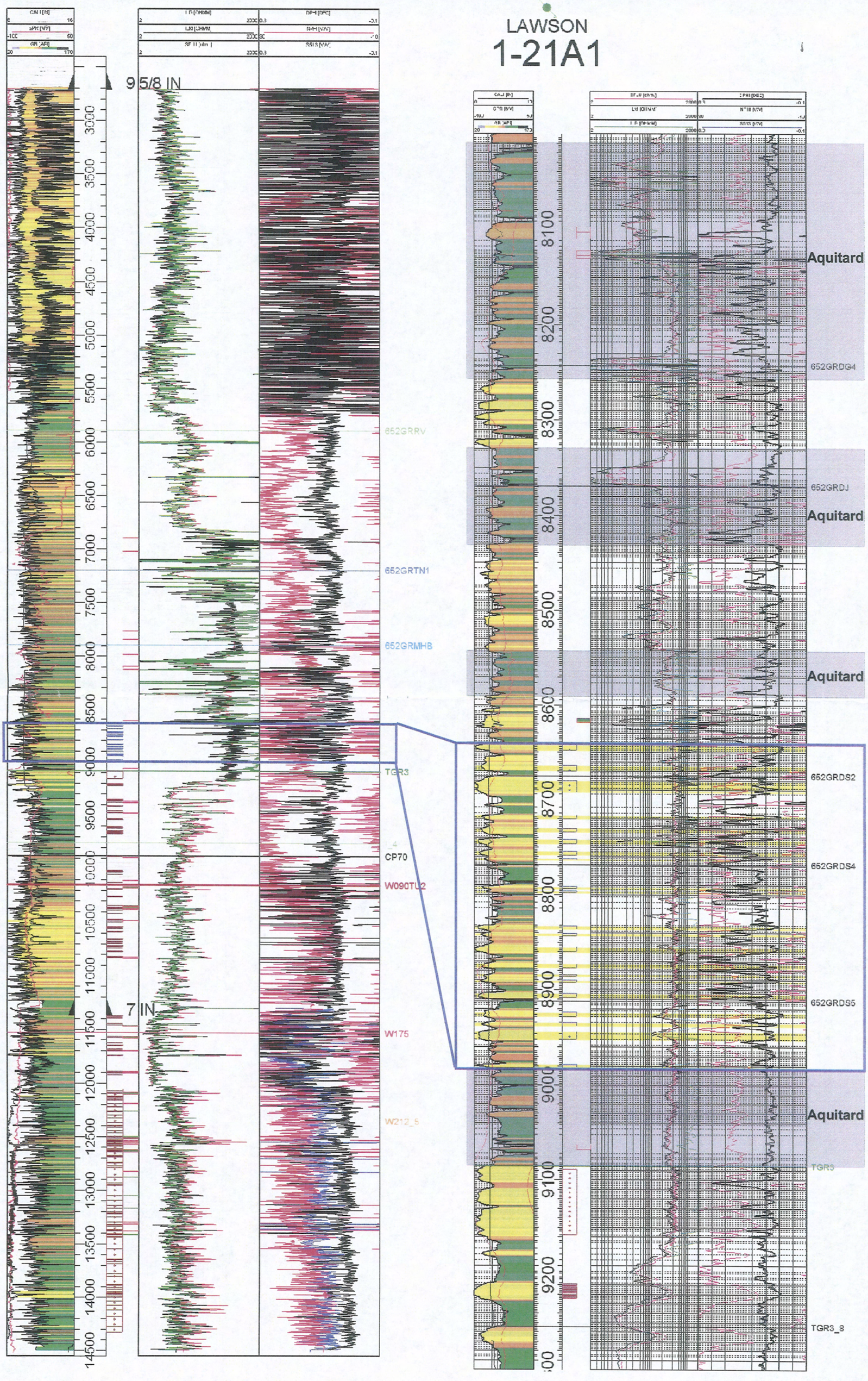


Contours show altitude of base of moderately saline ground water. Scanned contour layer from Howells, Longson and Hunt, 1987, State of Utah Dept. of Natural Resources Technical Publication No. 92 (U.S. Geological Survey Open File Report 87-394). Contour intervals are 1000 and 500 feet.

ALTAMONT OPERATORS

- *EP*
- *Flying J*
- *Barrett*
- *Devon*
- *Quinex*
- *Homeland*
- *Flying J & Quinex*

LAWSON
1-21A1



PROPOSED KENDALL 1-12A2 SWD CONVERSION
ANALYSIS OF NEAR SWD WELLS

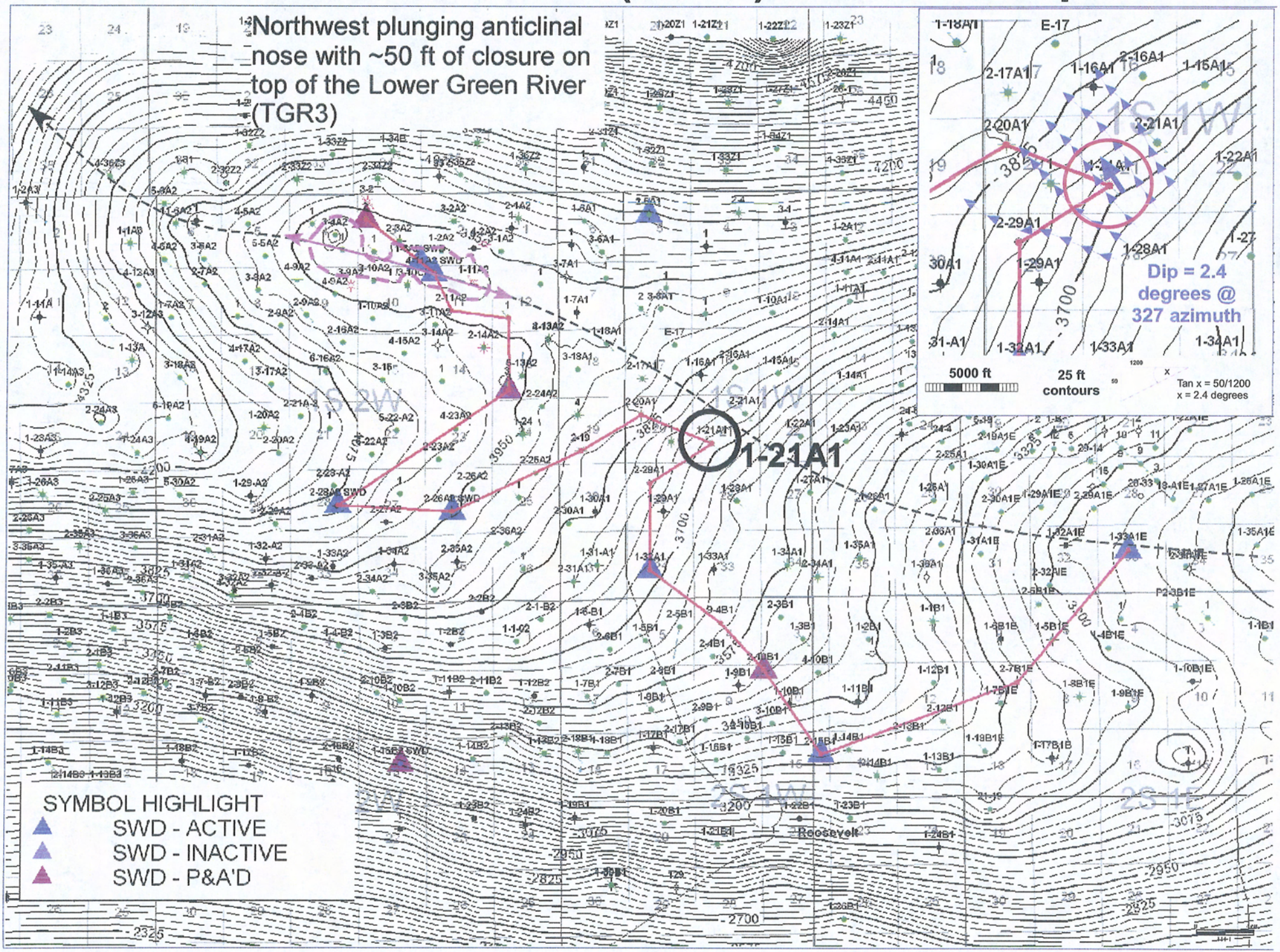
API	NAME	OPERATOR	STATUS	BWPM	MAX TUB PRS (psi)	~BMSGW (map elev. ft	KB (elev, ft)	~BMSGW (meas. depth)	TOP INJ (ft)	BOT INJ (ft)	Formation	depth below BMSGW
43013104950000	VICTOR BROWN FEE 1	ROONEY OPERATING CO	P&A'd	n/a	n/a	4250	5,931	1,681	7140	7340	UGR	5,459
43013300210000	1-3A2 SWD	Devon	ACTIVE	81744	1350	4510	5935	1,425	2708	3053	DR-uUinta	1,283
43013202550000	4-11A2 SWD	Devon	ACTIVE	25520	1500	4550	5891	1,341	9216	9468	MGR	7,875
43013300240000	James Powell 3	EP	P&A'd	n/a	n/a	4540	4727	187	2129	2386	DR-uUinta	1,942
43013303460000	2-28A2 SWD	Devon	ACTIVE	20328	1425	3475	5718	2243	2072	3330	DR-uUinta	-171
43013303890000	2-26A2 SWD	Devon	ACTIVE	17392	1550	3875	5561	1686	2045	3332	DR-uUinta	359
43013302240000	HARMSTON 1-32A1	WATER DISPOSAL INC.	ACTIVE	71300	2900	4520	5343	823	8200	9204	MGR-LGR	7,377
43013303670000	2-10B1	Devon	P&A'd	n/a	n/a	5020	5166	146	1800	2102	DR-uUinta	1,654
43047323510000	Ballard 2-15B1	Devon	ACTIVE	28428	2100	2500	5084	2584	7610	8527	MGR	5,026
43047303840000	DAVIS 1-33A1E	FLYING J (now EP)	ACTIVE	13834	1150	-800	5324	6124	5432	5854	UGR	-692

43013307380000	**Lawson 1-21A1**	**El Paso/Homeland**	**Proposed SWD conversion**	**4910**	**5373**	**463**	**8642**	**8981**	**UGR**	**8,179**
					log pick	**1355**	**8642**	**8981**	**UGR**	**7,287**

Lawson 1-21A1 logs on file with Utah DOGM

	RESISTIVITY	0	14498
	NEUTRON DENSITY	2708	14472
	CEMENT BOND	5500	14441
(OTHER 2)	CEMENT EVALUATION LOG	5780	14448
	GR SPECTRALOG	7000	14448
	SONIC	12295	14488
(OTHER 1)	WAVE FORMS (BONDLOG)	11295	14488

Lower Green River (TGR3) Structure Map



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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER: FEE ER 5/10/10

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:

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

8. WELL NAME and NUMBER: Lawson 1-21A1

2. NAME OF OPERATOR: Homeland Gas & Oil

9. API NUMBER: 4301330738

3. ADDRESS OF OPERATOR: 2800 West Highway 40 CITY Roosevelt STATE UT ZIP 84066 PHONE NUMBER: (435) 722-2992

10. FIELD AND POOL, OR WILDCAT: Bluebell

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1,516' FWL and 1,546' FSL COUNTY: Duchesne

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 21 1S 1W U 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:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

Effective April 13, 2010, operations of the Lawson 1-21A1 was taken over by:

N3065 El Paso E&P Company, L.P.
1099 18th Street, Suite 1900
Denver, CO 80202
(303) 291-6417

Mary Maria Bulnes
Attorney-in-Fact

The Previous Operator was: Homeland Gas & Oil
2800 West Hwy 40
N3130 Roosevelt, UT 84066

P. O. Box 1776
Roosevelt, UT 84066

Effective April 13, 2010, El Paso E&P Company, L.P. is responsible for operations conducted on the Lawson 1-21A1 well under Utah Department of Natural Resources Bond 400JU0708 issued by Travelers Casualty and Surety.

NAME (PLEASE PRINT) Craig Phillips TITLE President

SIGNATURE Cy Phillips DATE 4/26/2010

(This space for State use only)

APPROVED 6/8/2010
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

(5/2000)

RECEIVED
MAY 10 2010
DIV. OF OIL, GAS & MINING

WELLBORE ASSIGNMENT

This Assignment is made effective for all purposes the 13th day of April, 2010, ("Effective Date") by and between **Mountain Oil and Gas, Inc.**, a Utah corporation, whose address is P. O. Box 1574, Roosevelt, Utah 84066 **("Assignor")** and **El Paso E&P Company, L.P.**, a Delaware corporation, whose address is 1099 18th Street, Suite 1900, Denver, Colorado 80202 **("Assignee")**.

WHEREAS, Assignor is now the owner of that certain wellbore known as the Lawson 1-21A1 ("Wellbore") pursuant to an Assignment from Creston Resources to Assignor dated effective April 1, 2009 and recorded in Book M333, Page 450, Duchesne County, Utah.

WHEREAS, as consideration for this Assignment, Assignee has paid Assignor the sum of ten dollars ($10.00), plus other valuable and sufficient benefits and consideration as noted below, the receipt of which is acknowledged by Assignor.

NOW, THEREFORE, Assignor hereby quitclaims and assigns unto Assignee all of Assignor's right, title and interest in and to the Wellbore reserving unto itself all storage tanks, the 2 7/8" production tubing and bottom hole assembly currently in the well and any portion of the wellhead which will not be used by Assignee in its operation of the Lawson 1-21A1 well (collectively, the "Equipment") and Assignor retains all abandonment liability associated with the Equipment. Assignee agrees, by accepting this Assignment, to assume responsibility for its proportionate share of the Wellbore (but not the Equipment) and the risk, cost and expense of future operations, including plugging and abandoning the Wellbore (but not the Equipment) and surface restoration. Assignor agrees to remove the tanks from the wellsite location within two weeks of being notified by Assignee that Assignee has entered into a surface use agreement for the wellsite. Assignor further agrees to remove the tubing, bottom hole assembly and any other portion of the wellhead that will not be used by Assignee in its operation of the Lawson 1-21A1 well, within one week of being notified by Assignee that such Equipment has been removed from the wellbore. In the event Assignor fails to remove the Equipment in the timeframes set forth above, Assignee will deliver the Equipment to Assignor and Assignor will reimburse Assignee for the costs of delivery.

The Lawson 1-21A1 well is located in the NE/4SW/4 of Section 21, Township 1 South, Range 1 West, USM, Duchesne County, Utah API #43-013-30738.

TO HAVE AND TO HOLD the same unto Assignee, its successors and assigns, forever.

THIS ASSIGNMENT IS MADE WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, AS TO TITLE OR ANY OTHER MATTER. GRANTORS EXPRESSLY DISCLAIM AND NEGATE ANY WARRANTY AS TO THE CONDITION OF ANY PERSONAL PROPERTY, EQUIPMENT, FIXTURES AND ITEMS OF MOVEABLE PROPERTY COMPRISING ANY PART OF THE SUBJECT PROPERTY, INCLUDING (i) ANY IMPLIED OR EXPRESS WARRANTY OF MERCHANTABILITY, (ii) ANY IMPLIED OR EXPRESS WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, (iii) ANY IMPLIED OR EXPRESS WARRANTY OF CONFORMITY TO MODELS OR SAMPLES OF

MATERIALS, (iv) ANY RIGHTS OF GRANTEE UNDER APPLICABLE STATUTES TO CLAIM DIMINUTION OF CONSIDERATION, AND (v) ANY CLAIM BY GRANTEE FOR DAMAGES BECAUSE OF DEFECTS, WHETHER KNOWN OR UNKNOWN, IT BEING EXPRESSLY UNDERSTOOD BY GRANTEE THAT SAID PERSONAL PROPERTY, FIXTURES, EQUIPMENT, AND ITEMS ARE BEING CONVEYED TO GRANTEE "AS IS," "WHERE IS," WITH ALL FAULTS , AND IN THEIR PRESENT CONDITION AND STATE OF REPAIR. GRANTEE HAS INSPECTED, OR WAIVED ITS RIGHT TO INSPECT, THE SUBJECT PROPERTY FOR ALL PURPOSES AND SATISFIED ITSELF AS TO ITS PHYSICAL AND ENVIRONMENTAL CONDITION, BOTH SURFACE AND SUBSURFACE, INCLUDING BUT NOT LIMITED TO CONDITIONS SPECIFICALLY RELATED TO THE PRESENCE, RELEASE OR DISPOSAL OF HAZARDOUS SUBSTANCES, SOLID WASTES, ASBESTOS AND OTHER MANMADE FIBERS, OR NATURALLY OCCURRING RADIOACTIVE MATERIALS ("NORM"). GRANTEE IS RELYING SOLELY UPON ITS OWN INSPECTION OF THE PROPERTY, AND GRANTEE ACCEPTS ALL OF THE SAME IN ITS "AS IS," "WHERE IS" CONDITION.

Mountain Oil and Gas, Inc.

By: Craig Phillips

Name: CRAIG PHILLIPS

Title: PRESIDENT

El Paso E&P Company, L.P.

By: [illegible]

Name: John H. Benton

Title: Vice President

ACKNOWLEDGMENTS TO FOLLOW.

ACKNOWLEDGEMENTS

STATE OF UTAH §
§
COUNTY OF Duchesne §

BEFORE ME, the undersigned authority, on this 13th day of April, 2010, personally appeared Craig Phillips, known to me to be the person whose name is subscribed to the foregoing instrument as President of **Mountain Oil and Gas, Inc.**, and that said instrument was executed on behalf of said corporation, and the said Craig Phillips acknowledged said instrument to be the free act and deed of said corporation.

Notary Public
RASCHELLE RICHENS
3165 Millrock Drive #560
Holladay, Utah 84121
My Commission Expires
April 13, 2011
State of Utah

Raschelle Richens
Notary Public in and for the State of Utah
My Commission Expires: 4-13-2011

STATE OF COLORADO §
§
COUNTY OF DENVER §

BEFORE ME, the undersigned authority, on this 19 day of April, 2010, personally appeared **John H. Benton**, known to me to be the person whose name is subscribed to the foregoing instrument as Vice President of **El Paso E&P Company, L.P.**, and that said instrument was executed on behalf of said limited partnership, and the said **John H. Benton** acknowledged said instrument to be the free act and deed of said limited partnership.

[SEAL]

Ranae L. Johnson
Notary Public in and for the State of Colorado
My Commission Expires: 09/26/2010

RANAE L. JOHNSON
NOTARY PUBLIC
STATE OF COLORADO
My Commission Expires 09/26/2010

GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

March 10, 2010

Mr. William Ingalls
208 East 4800 South
Vernal, UT 84078

Subject: Proposed Homeland Gas & Oil, Inc. Class II Injection Well, Lawson 1-21A1 SWD
Cause No. UIC-359.1, Duchesne County, Utah

Dear Mr. Ingalls:

This is in response to your letter, dated March 2, 2010, in which you requested that the Division of Oil, Gas and Mining (DOGM) provide you information regarding other saltwater disposal wells in the vicinity of the Lawson 1-21A1 well. I have enclosed a packet of information for the Helen Larsen 2-5A1 well, which was converted to a saltwater disposal well in 1991. An enclosed map shows the location of the Helen Larsen 2-5A1 well relative to the Lawson 1-21A1 well, which is proposed as a saltwater disposal well.

The Helen Larsen 2-5A1 well is near Neola, about 3½ miles north-northwest of the Lawson well. The information packet for the Larsen well includes documentation of the application process, a list of parties who were notified regarding the application, testing procedures for mechanical integrity of the well, and copies of periodic field inspections and monitoring of the disposal well. I hope this will help you to understand that there is a high standard to be met in permitting the operation of saltwater disposal wells and that subsequent inspections assure that the standards must be met for the continued operation of these disposal wells.

If you have any further questions concerning this permitting process, please contact Mark Reinbold at 801-538-5333 or Brad Hill at 801-538-5315.

Sincerely,

Mark Reinbold
Geologist

MLR/js
Enclosure

N:\O&G Reviewed Docs\ChronFile\UIC\Homeland Gas & Oil Inc

March 02, 2010
Mr. Gill Hunt, Associate Director
Utah Division of Oil, Gas and Mining
PO Box 145801
Salt Lake City, Utah 84114-5801

William Ingalls
208 East 4800 South
Vernal, Utah 84078
1-435-789-0395

RE: Proposed Homeland Gas and Oil, Inc. Class II Injection Well
Cause No. UIC-359.1

We recieved a letter dated 02-11-10 from Brad Hill, Oil and Gas Permitting Manager. We feel our responsibilities as property owners extend not only to protecting our culinary waters, but the physical protection of all our residents who use the North Crescent Loop Road. This quiet two lane road is the transportation route to and from Roosevelt,used by not only the children and residents living in the Crescent Area, but by many families living on the North Bench. In the past many of us on the West leg of the loop have used the east leg to avoid the heavy truck traffic coming off the Neola Highway and to the disposal pits. Fortunatly this traffic has been confined to a quarter mile from the highway.

Brad mentioned it was his understanding waste materials would be delivered to the injection site via pipeline. Even if this is true, pumps break down, lines freeze and burst, power gos down. Most of us believe there to be a significant increase in truck traffic, especially for the west side of the loop if this proposal gets by. So, we ask again about truck routes in and out of the injection site, any alternate routes, size and numbers of tank trucks. Information critical if you might value our input or solutions we might have to offer.

Some of us question the possibility of increased seismicity in the area of high pressured injection. Brad says this has been a successful method in this general area for 40 years. It would be extremly helpful if we could get a list of nearby wells employing this method so as to inquire with some of the adjacent residents. Also a copy of a log sheet from a similar well showing dates, tests and inspections performed, would help us get an idea of how Well these sites are being monitored. Thanks for your time, we look foreward to meeting with your people soon.

Sincerely,
Wm. Ingalls
W.V. Ingalls

RECEIVED
MAR 04 2010
DIV. OF OIL, GAS & MINING

RECEIVED
FEB 16 2010
DIV. OF OIL, GAS & MINING

February 10, 2010

Mr. Gill Hunt, Associate Director
Utah Division of Oil, Gas, and Mining
PO Box 145801
SLC, UT 84114-5801

Dear Mr. Hunt:

Hi, our names are David and Valerie Cassler, and we own the Jessie Q. Lawson Plots 1, 3 and 4 on 5080 North in Roosevelt, Duchesne County. We have been notified by El Paso Exploration and Production that they have put in an application (Lawson 1-21A1) for a salt water injection disposal well within a half mile of our water well, and also that they intend to drill on a neighbor's property within a half mile of our water well and then crack horizontally through the strata to the earth underneath our property to extract oil and gas. Furthermore, that oil drilling permit has already been approved (Dye 2-28A1). We have already written to you by certified mail on 30 January, but have received no response. Therefore, we are writing again.

We are worried about contamination of water sources due to the actions of El Paso. ALS Laboratories, which does contact testing for the Environmental Protection Agency, is testing our water well samples right now, before any drilling by El Paso begins. We have alerted our neighbors and warned them to do testing now on their own water. Attached find a map of water wells within a 3 mile radius of our property.

We note that not only are there hazardous chemicals used in the fracking process, but that salt itself can be a contaminant at a high enough percentage to render drinking water undrinkable without desalinization. In addition, salt water injection wells are also capable of fracturing strata, leading to contamination. Furthermore, it is our understanding that the close proximity of the disposal injection well and the oil drilling well significantly increase the risk of strata fracturing and groundwater contamination. Thus, both the disposal well and also the proposed drilling (and their proximity to one another) are of concern to us, for both people and stock drink that well water.

The land in this particular area is saturated: no one can build basements, and we even have a small wetland on our property, complete with reeds and cattails. We know that there are some drilling practices, such as the digging of pits for recycling water used in drilling, that will surely contaminate the ground water in this context of a high water table coterminal with the surface of the land, and storm water runoffs could be a source of contaminations as well to surface water sources that provide our irrigation water. There are also related air quality issues with disposal wells.

We are sure the Utah Division of Oil, Gas, and Mining is interested not only in the development of oil and gas in Utah, but also in protecting water sources, which are so scarce and precious in the Mountain West. We are inquiring as to your best practices in order to ensure that the development can take place without rendering

the land useless. What protections will you be putting in place as part of your best practices to ensure no contamination results?

More specifically,

1) What is the process for the approval of the application for the disposal well, and the application for drilling? Will there be a time for public comment, and when is that time?

2) Will you be testing the wells in this 3-5 mile radius prior to any development and disposal by El Paso? Will you be testing the air quality?

3) What other restrictions, such as requiring the tanking of waste water, will you place on El Paso in order to protect groundwater sources? What about the issue of runoff to surface water sources, from which we get our irrigation water?

4) If you give permission to El Paso to proceed, how often will you be testing well water and air quality in order to ensure that no contamination has taken place?

5) If contamination does take place, what power do you have to stop El Paso's contaminating actions and require a full cleanup of the contamination?

We know that there has been groundwater contamination of sites not only in far away states like Pennsylvania, but also in neighboring states such as Wyoming and Colorado, and even here in Utah in Grand County. We are sure that your Division must have answers to the above questions, and have developed standards for best practices in this area of concern.

We look forward to your answers.

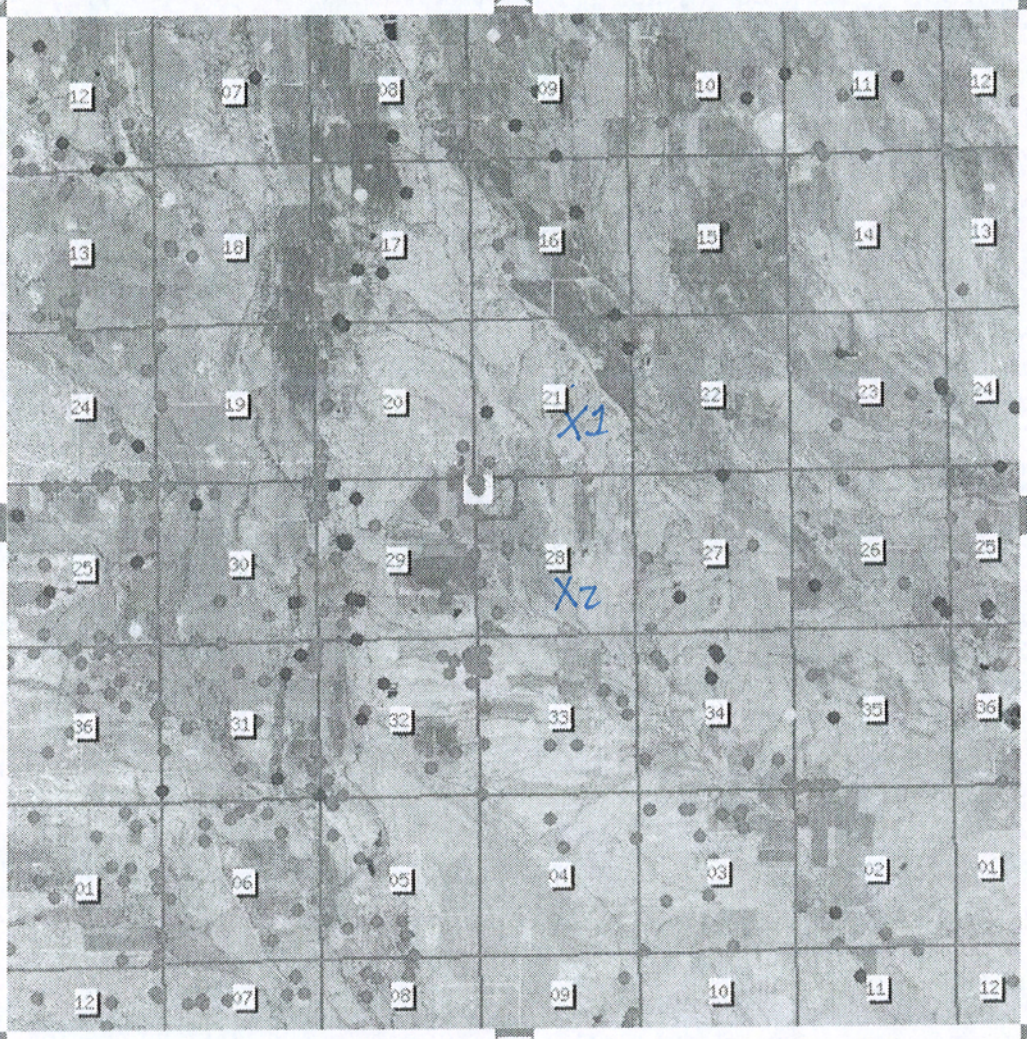
Sincerely,

David Edward Cassler

Valerie Hudson Cassler
592 East 200 North, Orem, Utah 84097, Phone 801-225-2794

Cc:
Dan Jarvis, Operations Field Manager, UT DOGM (by email)
Kate Johnson, State of Utah Division of Water Rights (by email)
Darcy Campbell, Environmental Protection Agency (by email)
Gregory Oberley, Environmental Protection Agency (by email)
All of our neighbors (by hard copy)

Utah Division of Water Rights



0 2200 4400 6600 8800 ft

0 0.4 0.8 1.2 1.6 mi

Zoom In Mode

Map Tools

Display	Layer Name
☑	Points of Diversion
☐	POD Labels
☐	Place of Use
☐	Land Use
☐	County Parcels
☐	County Parcel Labels
☐	Counties
☑	Public Land Survey System
☐	Rivers and Streams
☐	Roads
☐	Duty

Aerial Photographs **Base Map**

Legend

- UNDERGROUND
- SURFACE
- SPRING
- POINT TO POINT
- REDIVERSION
- 43-8696 Points of Diversion
- 43-8696 Place of Use by Forties
- Sections

X1 = saltwater injection disposal well

X2 = oil drilling site

>>> Brad Hill 2/16/2010 7:26 AM >>>
Cathy,

You have DOGM permission to commence testing on the Lawson 1-21-A1 well. This includes any testing to gain data and information which is required to complete the UIC application process.

Brad

****
Brad Hill P.G.
O & G Permitting Manager Petroleum Geologist
State of Utah
Division of Oil, Gas, & Mining
Phone: (801)538-5315
Fax: (801)359-3940
email: bradhill@utah.gov
****

>>> "Hammock, Catherine Louise (Cathy)" <Cathy.Hammock@elpaso.com> 2/12/2010 10:01 AM >>>
Brad,

When we spoke on Monday, you indicated it would be all right for El Paso to proceed with testing the Lawson 1-21A1 well. Would you please send me something in writing on that? An email would be fine. Our arrangement with Mountain is that we will accept a wellbore assignment from them once we have approval to test. Once I have something back from you on this, I will approach Mountain for the wellbore assignment.

Thanks for your help. Have a great weekend!

Cathy Hammock
Sr. Staff Landman, Altamont Team, Western U.S. Business Area
El Paso E&P Company, L.P.
The Granite Building
1099 18th Street, Suite 1922, Denver, CO 80202
Phone: 303/291-6422
Cell: 832/493-0347
Fax: 303/291-6487
Email: cathy.hammock@elpaso.com

****
THIS E-MAIL AND ANY MATERIALS TRANSMITTED WITH IT MAY CONTAIN CONFIDENTIAL OR PROPRIETARY MATERIAL FOR THE SOLE USE OF THE INTENDED RECIPIEI
****

GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

February 11, 2010

Carolyn Elder
Rt 1 Box 1088
Roosevelt, UT 84066

Subject: Proposed Homeland Gas & Oil, Inc. Class II Injection Well, Lawson 1-21A1 SWD
Cause No. UIC-359.1, Duchesne County, Utah

Dear Ms. Elder:

This letter is in response to your comments to the Division of Oil, Gas and Mining (DOGM) in regards to the Lawson 1-21A1, proposed injection well. Because of comments received by DOGM, this matter will be placed before the Board of Oil, Gas and Mining (the Board) for a public hearing. At this hearing you will have the opportunity to voice your concerns and comments and to have them addressed. The hearing date has not been set at this time but will most likely take place sometime in the Spring of 2010. You should receive notice of this hearing at least 15 days prior to the hearing. Upcoming Docket items can be viewed on the Board's website at http://ogm.utah.gov/division/Board/Board_agenda.htm .

The primary objective of the Underground Injection Control (UIC) Program, which the Division administers in Utah, is to protect Underground Sources of Drinking Water (USDWs) from contamination by injection of fluids, primarily water produced by oil and/or gas wells. The actions taken by the Division, from permitting an injection well to plugging of the well, are all taken with this objective in mind. During the permitting process only injection zones that are safely well below and confined from fresh water supplies are considered. The well must be shown to demonstrate mechanical integrity both inside and outside. This means that all casing, tubing and other equipment in the well must not leak and the cement outside the casing must be adequate to prevent upward flow of fluid into USDWs. All injection wells are monitored, inspected and tested periodically to assure that integrity is maintained.

Underground Injection has been a successful method of disposing of oil-field produced water in this general area since 1970. During this forty year history of injection, various formations and depths have been utilized for disposal. The Division, in an effort to verify the

integrity of these disposal zones and build confidence that they were in fact confining the injected fluids, began investigating them in the 1980's, after establishment of the UIC Program. The Division teamed up with the U.S. Geological Survey and began a series of investigations, groundwater sampling and analysis that continues today. One of the reports published resulting from these efforts which addresses some of the data collected (1990-2005) and evaluation of it can be found through our web site or at http://pubs.usgs.gov/sir/2007/5192/. A copy of this document and a DOGM pamphlet about our UIC program are included with this letter. A notable quote from the USGS report states that "..saline wastewater injected into the lower part of the Duchesne River, Uinta, Green River, and underlying formations is not migrating upward into the upper part of the Duchesne River and Uinta Formations or surficial deposits that are used for drinking-water supplies".

The Division has received letters from neighbors of the proposed injection well indicating that they are concerned about increased truck traffic to and from the well. It is our understanding that water will be delivered to the well via pipeline, thereby requiring no need for significant increased truck traffic. Any chances of groundwater contamination should be minimal based on the fact that water will be injected to depths far below the groundwater aquifers. El Paso Exploration & Production is currently considering injection depths more than 8000 feet below the surface. The Division will conduct a rigorous process to ensure that all relevant conditions are met before a permit is issued for the injection well. In the event that the well is permitted, it will then be held to high standards of monitoring and periodic testing to make sure that it poses no threat to the groundwater aquifers.

If you have any questions concerning this permitting process, please contact Mark Reinbold at 801-538-5333 or myself at 801-538-5315.

Sincerely,

Brad Hill
Oil & Gas Permitting Manager

BGH/js
Enclosures

N:\O&G Reviewed Docs\ChronFile\UIC\Homeland Gas & Oil Inc

GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

February 11, 2010

Mr. David Cassler
Ms. Valerie Hudson Cassler
592 East 200 North
Orem, UT 84097

Subject: Proposed Homeland Gas & Oil, Inc. Class II Injection Well, Lawson 1-21A1 SWD
Cause No. UIC-359.1, Duchesne County, Utah

Dear Mr. David Cassler and Ms. Valerie Hudson Cassler:

This letter is in response to your comments to the Division of Oil, Gas and Mining (DOGM) in regards to the Lawson 1-21A1, proposed injection well. Because of comments received by DOGM, this matter will be placed before the Board of Oil, Gas and Mining (the Board) for a public hearing. At this hearing you will have the opportunity to voice your concerns and comments and to have them addressed. The hearing date has not been set at this time but will most likely take place sometime in the Spring of 2010. You should receive notice of this hearing at least 15 days prior to the hearing. Upcoming Docket items can be viewed on the Board's website at http://ogm.utah.gov/division/Board/Board_agenda.htm .

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If you have any questions concerning this permitting process, please contact Mark Reinbold at 801-538-5333 or myself at 801-538-5315.

Sincerely,

Brad Hill
Oil & Gas Permitting Manager

BGH/js
Enclosures

N:\O&G Reviewed Docs\ChronFile\UIC\Homeland Gas & Oil Inc

GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

February 11, 2010

Mr. William Ingalls
208 East 4800 South
Vernal, UT 84078

Subject: Proposed Homeland Gas & Oil, Inc. Class II Injection Well, Lawson 1-21A1 SWD
Cause No. UIC-359.1, Duchesne County, Utah

Dear Mr. Ingalls:

This letter is in response to your comments to the Division of Oil, Gas and Mining (DOGM) in regards to the Lawson 1-21A1, proposed injection well. Because of comments received by DOGM, this matter will be placed before the Board of Oil, Gas and Mining (the Board) for a public hearing. At this hearing you will have the opportunity to voice your concerns and comments and to have them addressed. The hearing date has not been set at this time but will most likely take place sometime in the Spring of 2010. You should receive notice of this hearing at least 15 days prior to the hearing. Upcoming Docket items can be viewed on the Board's website at http://ogm.utah.gov/division/Board/Board_agenda.htm .

The primary objective of the Underground Injection Control (UIC) Program, which the Division administers in Utah, is to protect Underground Sources of Drinking Water (USDWs) from contamination by injection of fluids, primarily water produced by oil and/or gas wells. The actions taken by the Division, from permitting an injection well to plugging of the well, are all taken with this objective in mind. During the permitting process only injection zones that are safely well below and confined from fresh water supplies are considered. The well must be shown to demonstrate mechanical integrity both inside and outside. This means that all casing, tubing and other equipment in the well must not leak and the cement outside the casing must be adequate to prevent upward flow of fluid into USDWs. All injection wells are monitored, inspected and tested periodically to assure that integrity is maintained.

Underground Injection has been a successful method of disposing of oil-field produced water in this general area since 1970. During this forty year history of injection, various formations and depths have been utilized for disposal. The Division, in an effort to verify the

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114 -5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • *www.ogm.utah.gov*

UTAH DNR
OIL, GAS & MINING

integrity of these disposal zones and build confidence that they were in fact confining the injected fluids, began investigating them in the 1980's, after establishment of the UIC Program. The Division teamed up with the U.S. Geological Survey and began a series of investigations, groundwater sampling and analysis that continues today. One of the reports published resulting from these efforts which addresses some of the data collected (1990-2005) and evaluation of it can be found through our web site or at http://pubs.usgs.gov/sir/2007/5192/. A copy of this document and a DOGM pamphlet about our UIC program are included with this letter. A notable quote from the USGS report states that "..saline wastewater injected into the lower part of the Duchesne River, Uinta, Green River, and underlying formations is not migrating upward into the upper part of the Duchesne River and Uinta Formations or surficial deposits that are used for drinking-water supplies".

The Division has received letters from neighbors of the proposed injection well indicating that they are concerned about increased truck traffic to and from the well. It is our understanding that water will be delivered to the well via pipeline, thereby requiring no need for significant increased truck traffic. Any chances of groundwater contamination should be minimal based on the fact that water will be injected to depths far below the groundwater aquifers. El Paso Exploration & Production is currently considering injection depths more than 8000 feet below the surface. The Division will conduct a rigorous process to ensure that all relevant conditions are met before a permit is issued for the injection well. In the event that the well is permitted, it will then be held to high standards of monitoring and periodic testing to make sure that it poses no threat to the groundwater aquifers.

If you have any questions concerning this permitting process, please contact Mark Reinbold at 801-538-5333 or myself at 801-538-5315.

Sincerely,

Brad Hill
Oil & Gas Permitting Manager

BGH/js
Enclosures

Date: 30 January 2010

To: El Paso Exploration and Production
1099 18th Street, Suite 1900
Denver, CO 80202
and its testing company, Devon Energy, 20 North Broadway, Oklahoma City, OK 73102-8260

Also To: Mr. Gill Hunt
Utah Division of Oil, Gas, and Mining
PO Box 145801
SLC, UT 84114-5801

Also to: Mr. Ken Bousfield
Division of Drinking Water
The Utah Department of Environmental Quality
PO Box 144830
SLC, UT 84114-4830

Also to: Mr. Walter Baker
Division of Water Quality
PO Box 144870
SLC, UT 84114-4870

RECEIVED
FEB 02 2010
DIV. OF OIL, GAS & MINING

From: David and Valerie Hudson Cassler
592 East 200 North
Orem, Utah 84097
801-225-2794

To Mr. Bousfield and Mr. Hunt and El Paso Exploration and Production:

We own the Jessie Q. Larsen Parcels 1, 3 and 4 in Roosevelt, Utah. We have been informed by El Paso that they intend to place a salt water injection disposal well within one half mile of our property. We have also been informed that El Paso wishes to do seismic testing on our land, pursuant to placing an oil/gas well on a neighbor's property and doing horizontal hydraulic fracturing/drilling to recover gas from the surrounding property, including our own. We have already written to Mr. Hunt earlier about our concerns about the intended disposal well.

In today's Deseret News, there is an article detailing the risks of "fracking." Not only in nearby states, such as Wyoming, but also in Utah's own Grand County, there have been reports of this behavior resulting in serious groundwater contamination.

The groundwater in our area fully saturates the land, and none of us are able to build basements because the water table level is so high. We also have a natural wetland with reeds and cattails on our property. Since all the neighbors use the water for drinking, we have a heightened concern over El Paso's plans.

We have attached additional material discussing the various risks. In addition to harmful chemicals, salt itself is regarded as a contaminant at very high levels, and so even the salt water injection disposal well raises questions of possible contamination.

Our neighbors are involved in substantial agriculture. If drinking and irrigation water is contaminated, this little neighborhood could be decimated. Furthermore, property with contaminated water supplies loses all value and is rendered unsalable.

We are concerned enough that we have sought legal counsel from an environmental law firm. Upon their advice, we will be obtaining well water analyses from several different state-certified testing laboratories. Given the high groundwater level and the wetland in our area, *we ask the State of Utah to conduct an environmental impact analysis of the proposed actions by El Paso* ***before*** *El Paso can move forward with their plans for the well, testing, and drilling [Request #1]. We also request a full Materials Safety Data Sheet (MSDS) on all substances that would be injected by El Paso into subterranean strata near our property, either in connection with the disposal well or in connection with their proposed horizontal drilling [Request #2]. We also request that the State of Utah perform its own testing, in addition to the testing we will perform, on the well water in this area* ***before*** *any seismic testing, salt water injection, or horizontal drilling takes place [Request #3].*

When we raised our concerns with the employee of El Paso who called us to press their case, the employee, rather than addressing our concerns, chided us and admonished us to look at the "big picture of how America needs more oil and gas." Well, yes, there is a big picture. But the federal EPA has said that drinking water should not be contaminated and land rendered unusable in the process of finding new energy resources. Government is supposed to care about the little people, too, even while looking at the big picture. Companies that contaminate drinking water have been held liable in court for hundreds of millions of dollars, while homeowners have been ruined by what has happened to their water. No one would want these types of outcomes. Let's all be safe rather than sorry.

We hope to hear from you soon about our requests, which will take cooperation from all parties involved.

Sincerely,

David E. Cassler

Valerie Hudson Cassler

Cc: All neighbors of ours in Roosevelt, Utah
Our government representatives

GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

January 26, 2010

Duchesne County Commission
and Mr. Mike Hyde
Community Development Director
P.O. Box 270
Duchesne, UT 84021-0270

Subject: Proposed Homeland Gas & Oil, Inc. Class II Injection Well, Lawson 1-21A1 SWD
Cause No. UIC-359.1, Duchesne County, Utah

Dear Commissioners and Mr. Hyde:

This is in response to your letter, dated December 22, 2009, in which you requested that the Division of Oil, Gas and Mining (Division) provide you information explaining the steps undertaken in order to safeguard groundwater supplies in the vicinity of the proposed salt water injection well.

The primary objective of the Underground Injection Control (UIC) Program, which the Division administers in Utah, is to protect Underground Sources of Drinking Water (USDWs) from contamination by injection of fluids, primarily water produced by oil and/or gas wells. The actions taken by the Division from permitting an injection well to plugging of the well are all taken with this objective in mind. During the permitting process only injection zones that are safe well below and confined from fresh water supplies are considered. The well must be shown to demonstrate mechanical integrity both inside and outside. This means that all casing, tubing and other equipment in the well must not leak and the cement outside the casing must be adequate to prevent upward flow of fluid into USDWs. All injection wells are monitored, inspected and tested periodically to assure that integrity is maintained.

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If you have any questions concerning this permitting process, please contact Mark Reinbold at 801-538-5333 or Brad Hill at 801-538-5315.

Sincerely,

Gil Hunt
Associate Director, Oil & Gas

GLH/MLR/js
Enclosure

N:\O&G Reviewed Docs\ChronFile\UIC\Homeland Gas & Oil Inc

API Well No: 43013307380000

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: FEE

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:

1. TYPE OF WELL
Oil Well

8. WELL NAME and NUMBER:
LAWSON 1-21A1

2. NAME OF OPERATOR:
EL PASO E&P COMPANY, LP

9. API NUMBER:
43013307380000

3. ADDRESS OF OPERATOR:
1099 18th ST, STE 1900 , Denver, CO, 80202

PHONE NUMBER:
303 291-6417 Ext

9. FIELD and POOL or WILDCAT:
BLUEBELL

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1546 FSL 1516 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NESW Section: 21 Township: 01.0S Range: 01.0W Meridian: U

COUNTY:
DUCHESNE

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
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	✓ CONVERT WELL TYPE
✓ SUBSEQUENT REPORT Date of Work Completion: 6/4/2010	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

El Paso E & P worked on the subject well to prepare for potential Salt Water Disposal Well. Retrieved water samples for analysis, perforated and did step rate test. Will proceed with the completion the SWD application.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
June 15, 2010

NAME (PLEASE PRINT)
Marie Okeefe

PHONE NUMBER
303 291-6417

TITLE
Sr Regulatory Analyst

SIGNATURE
N/A

DATE
6/8/2010

RECEIVED June 08, 2010

EL PASO PRODUCTION

Operations Summary Report

Legal Well Name:	LAWSON 1-21A1 SWD				
Common Well Name:	LAWSON 1-21A1 SWD				Spud Date: 3/20/1983
Event Name:	PRODUCTION EQUIPMENT	Start:	5/5/2010	End:	
Contractor Name:	BASIC ENERGY SERVICES	Rig Release:		Group:	
Rig Name:	BASIC	Rig Number:	1584		

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
5/8/2010	16:00 - 17:00	1.00	C	01		ROAD RIG 25 MILES TO LOCATION.
	17:00 - 19:00	2.00	C	01		MOLRU, SPOT PUMP & TANK, RUN PUMP & RETTURN LINES. CSDFD CT.
5/9/2010	06:00 - 09:00	3.00	C	08		CT & TGSM (N/U BOP'S) TSIP & CSIP @ 700# PSI, BWD R/U HOT OILER CIRCULATE WELL BORE UNTIL CLEAN RETURNS.
	09:00 - 10:30	1.50	C	15		N/D WELL HEAD, RELEASE R3 PKR, N/U BOP'S, R/U WORK FLOOR & TBG EQ.,
	10:30 - 16:30	6.00	C	04		POOH L/D 296 JTD 2-7/8", PUMP CAVITY, 1 JR., R3 PACKER ASSEMBLY.
	16:30 - 19:30	3.00	C	04		MU & RIH W/ 6" BIT, 7" CSG SCRAPER, REG X EUE X/O, 80 JTS 2-7/8" 8RD EUE TBG, EOT @ 2505' SWIFD CSDFD CT.
5/11/2010	06:00 - 07:30	1.50	C	08		CT & TGSM (BODY POSITION) CSIP & TSIP @ 200# PSI, BWD, CIRCULATE WELL CLEAN.
	07:30 - 10:00	2.50	C	04		PUMU & RIH W/ 212 JTS 2-7/8" N-80 EUE TBG SCRAPER @ 9092'
	10:00 - 11:00	1.00	C	08		CIRCULATE ELL CLEAN.
	11:00 - 14:00	3.00	C	04		POOH W/ 292 JTS 2-7/8", X/O, 7" SCRAPER, 6" BIT.
	14:00 - 16:30	2.50	C	04		RIH W/ 7" CIBP & SET @ 9080'. TEST TO 1000# PSI LOST 500# IN 15 SEC. CIRCULATE WELL CLEAN.
	16:30 - 17:30	1.00	C	14		PUMP 10 SX CLASS G CMT ON TOP OF PLUG, PUH 10 JTS REVERSE CLEAN.
	17:30 - 19:30	2.00	C	04		POOH W/ 30 JTS 2-7/8" EOT @ 7656'. SWIFD CSDFD CT.
5/12/2010	06:00 - 08:30	2.50	C	08		CT & TGSM (PUMP OPERATIONS, STAY CLEAR OF PUMP & RETURN LINES) CSIP @ 0#, TSIP @ 100# PSI, BWD, CIRCULATE WELL CLEAN W/ 140* PROD WATER.
	08:30 - 11:30	3.00	C	04		RIH W/ 38 JTS 2-7/8" EUE N-80 TBG, TAG CMT TOP @ 9025', L/D 2 JTS TEST CASING TO 1000# PSI LOST PRESSURE IN 30 SEC. TO 300# PSI. EST INJ., RATE 2 BPM @ 1350# PSI. POOH W/ 288 JTS 2-7/8" 8RD EUE TBG.
	11:30 - 15:00	3.50	C	04		RIH W/ PKR & ISOLATE CASING LEAK @ 6946' TO 7105'. CASING ABOVE 6946' TESTED GOOD @ 1000# PSI FOR 30 MINUTES & CASING BELOW 7105' TESTED GOOD @ 1000# FOR 30 MINUTES. EST. INJ. RATE OF 1.75 BPM @ 1200# PSI.
	15:00 - 18:00	3.00	C	04		POOH W/ 226 JTS 2-7/8" 8RD, L/D & RETIRE PKR. SWIFD, CSDFD CT.
5/13/2010	06:00 - 12:30	6.50	C	04		CT & TGSM (RIH W/ CMT RETAINER) CSIP @ 0# PSI. MU & RIH W/ 7" CIBP, 224 JTS 2-7/8" 8RD N-80 EUE TBG. SET CICR @ 6914'.

RECEIVED June 08, 2010

EL PASO PRODUCTION

Operations Summary Report

Legal Well Name: LAWSON 1-21A1 SWD
Common Well Name: LAWSON 1-21A1 SWD
Event Name: PRODUCTION EQUIPMENT
Contractor Name: BASIC ENERGY SERVICES
Rig Name: BASIC

Start: 5/5/2010
Rig Release:
Rig Number: 1584

Spud Date: 3/20/1983
End:
Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
5/13/2010	06:00 - 12:30	6.50	C	04		
	12:30 - 15:00	2.50	C	09		TEST TBG TO 3000# PSI, TEST CASING TO 1000# PSI, EST INJ., RATE OF 2.5 BPM @ 1400# PSI. OPEN SURFACE CASING & EST., INJ RATE W/ SAME RESULTS SURFACE CASING NOT COMMUNICATING. SWIFD CSDFD CT.
5/14/2010	06:00 - 07:30	1.50	C	01		CT & TGSM (WORKING W/ 3RD PARTY CONTRACTORS) MOL W/ B.J CMT EQ., R/U.
	07:30 - 11:00	3.50	C	14		TGSM (CMT JOB) TEST LINES TO 5,000# PSI. EST. INJ RATE W/ 10 BBLS 1.5 BPM, @ 1330#PSI. PUMP 360 SX (74 BBLS) G CMT +.8FL-25+.2CD-32 (15.8 PPG) @ 2.4 BPM @ 1420# PSI TO 126# PSI. DISPLACE W/ 30 BBLS @ 2.5# PSI @ 126# PSI TO 506# PSI 5 BBLS @ 1.0 BPM @ 1150# PSI, ISDP @ 1275# PSI SDF 20 MIN. WALK IN 1 BBL, SDF 15 MIN. WALK IN 1 BBL, SDF 15 MIN. WALK IN 1 BBL. STING OUT W/ 1380# PSI. REVERSE W/ 60 BBLS.
	11:00 - 12:00	1.00	C	01		RDMOL W/ B.J CMT EQ.,
	12:00 - 13:00	1.00	C	04		POOH W/ 224 JTS 2-7/8" 8RD N-80. L/D BHA.
	13:00 - 16:00	3.00	C	04		PUMU & RIH W/ 6" BIT, JUNK BASKET, BIT SUB, 4 4-3/4" DCS, 3-1/2 IF X 2-7/8" EUE X/O, 216 JTS 2-7/8" 8RD N-80. EOT@ 6785'. SWIFD CSDFD CT.
5/15/2010	06:00 - 08:30	2.50	C	04		CT & TGSM (POWER SWVL OPERATIONS) MU & RIH W/ 3 JTS 2-7/8" PU PWR SVL TAG W/ JT# 220 @ 6914'.
	08:30 - 16:00	7.50	C	13		RU PUMP & RETURNLINES BREAK CIRCULATION. DRILL OUT CIBP & CMT TO 6944'. CMT GREEN, CIRC WELL CLEAN, SWIFWE CSDFWE CT.
5/16/2010	06:00 - 06:30	0.50	C	18		NO ACTIVITY SDFWE
5/17/2010	06:00 - 06:30	0.50	C	18		NO ACTIVITY SDFWE
5/18/2010	06:00 - 10:30	4.50	C	13		CT & TGSM (POWER SWVL OPERATIONS) TSIP & CSIP @ 0# PSI, OPEN WELL BREAK CIRCULATION DRILL OUT TO W/ 3 JTS 2-7/8" 8RD TBG, FELL THROUGH CMT @ 7025'. SWVL DOWN 1 JT., R/D PWR SWVL RIH W/ 287 TTL JTS 2-7/8" 8RD EUE TBG, TAG CMT TOP @ 9029' CIRC WELL CLEAN.
	10:30 - 12:00	1.50	C	09		PRESSURE TEST CSG TO 2000# PSI., LOST 960# PSI IN 15 MIN., RETEST TO 2000# PSI W/ WELLHEAD ISOLATED LOST 800# PSI IN 15 MIN., LOST 60# IN 15 MINUTES (1140# PSI W/NOT BLEED OFF)
	12:00 - 14:00	2.00	C	04		POOH W/ 287 JTS 2-7/8" 8RD N-80 EUE TBG., X/O, 4 4-3/4" DCS, BIT SUB. L/D & RETIRE 6" BIT.
	14:00 - 16:30	2.50	C	04		RIH W/ PKR & ISOLATE CASING LEAK @ 6946' TO 7105'. CASING ABOVE 6946' TESTED GOOD @ 2000# PSI FOR 30 MINUTES & CASING BELOW 7105' TESTED GOOD @ 2000# FOR 30 MINUTES. EST. INJ. RATE OF 1.75 BPM @ 2000# PSI.
	16:30 - 18:30	2.00	C	04		POOH W/ 180 JTS 2-7/8" 8RD N-80 EUE TBG. SWIFD CSDFD CT. EOT @ 3404'.
5/19/2010	06:00 - 08:00	2.00	C	04		CT & TGSM (PRESSURE TESTING) POOH W/ 111 JTS 2-7/8" 8RD

RECEIVED June 08, 2010

EL PASO PRODUCTION

Operations Summary Report

Legal Well Name: LAWSON 1-21A1 SWD
Common Well Name: LAWSON 1-21A1 SWD
Event Name: PRODUCTION EQUIPMENT
Contractor Name: BASIC ENERGY SERVICES
Rig Name: BASIC

Start: 5/5/2010
Rig Release:
Rig Number: 1584

Spud Date: 3/20/1983
End:
Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
5/19/2010	06:00 - 08:00	2.00	C	04		N-80 EUE TBG. L/D & RETIREWCS 7" PACKER.
	08:00 - 13:00	5.00	C	04		MU & RIH W/ WCS 7" CIBP 223 JTS 2-7/8" 8RD N-80 EUE TBG. SET CICR @ 6884'. TEST TBG TO 3000# PSI., TEST CIBP TO 2000# PSI, STING IN & EST. INJ., RATE OF 1.7 BPM @ 2100# PSI. SWIFD CSDFD CT.
5/20/2010	06:00 - 08:30	2.50	C	01		CT & TGSM (SQUEEZE JOB) MOL W/ HALLIBURTON CMT EQ., R/U PRESSURE TEST LINES & EQ., TO 5000# PSI.
	08:30 - 11:30	3.00	C	14		TGSM (CMT JOB) SQUEEZE W/ 180 SX BLENDED (36.9 BBLS) LEAD CMT 15.81# 1.15 YIELD, 4.95 GAL/SK @ 3 BPM 1600# TO 500# PSI 180 SX NEAT CMT W/ CALCIUM CHLORIDE HIGH TEST PELLETS. 500# PSI TO 200# PSI, DISPLACE W/ 36 BBLS @ 2.5 BPM TO .5 BPM @ 200# PSI TO 1550# PSI. WAIT 30 MINUTES WALK IN 1 BBL, 1250# TO 1850#, WAIT 15 MINUTES 1650# PSI WALK IN 1/4 BBL PRESSURE TO 2100# PSI WAIT 15 MINUTES STING OUT OF RETAINER W/ 2100# PSI. REVERSE CIRCULATE W/ 60 BBLS REC. 2.5 BBLD CMT. RDMOL W/ HALLIBURTON CMT EQ.,
	11:30 - 14:00	2.50	C	04		POOH W/ 223 JTS 2-7/8" 8RD N-80 EUE TBG, L/D & RETIRE STINGER. SWIFD CSDFD CT.
5/21/2010	06:00 - 10:30	4.50	C	10		CT & TGSM (N/D WELL HEAD) MONITOR CELLAR FOR H2S & LEL'S. N/D TBG HANGER, N/U "NEW" WOODGROUP WELLHEAD TEST TO 5K. N/U BOP'S. R/U WORKFLOOR & TBG EQ.,
	10:30 - 11:30	1.00	C	04		MU & RIH W/ 6" BIT, BIT SUB, 4 4-3/4" DCS, 3-1/2" PAC X 2-7/8" EUE X/O, 219 JTS 2-7/8" 8RD N-80 EUE TBG.
	11:30 - 20:00	8.50	C	13		TAG @ 6880'. P/U PWR SWVL,R/U PUMP & RETURN LINES. BREAK CIRCULATION. DRILL OUT to 6912' W/ JT# 220. SWIFD CSDFD CT.
5/22/2010	06:00 - 08:00	2.00	C	09		CT & TGSM (POWER SWVL OPERATIONS) TSIP & CSIP @ 0# PSI, OPEN WELL, TEST CASING TO 2,000# PSI FOR 30 MINUTES, GOOD TEST.
	08:00 - 09:00	1.00	C	13		DRILL OUT CMT TO 6943' W/ JT# 221, CMT GREEN SWIFWE
	09:00 - 12:00	3.00	C	18		CLEAN UP LOCATION & STEAM CLEAN FLOOR & TBG EQ., CSDFWE., CT.
5/23/2010	06:00 - 06:30	0.50	C	18		NO ACTIVITY CSDFWE
5/24/2010	06:00 - 06:30	0.50	C	18		NO ACTIVITY CSDFWE
5/25/2010	06:00 - 07:30	1.50	C	09		CT & TGSM (PRESSURE TESTING) PRESSURE TEST @ 6944'. TO 2000# PSI, GOOD TEST.
	07:30 - 08:30	1.00	C	13		DRILL OUT TO 6976' . W/ JT., #222 . PRESSURE TEST TO 2000# PSI FOR 30 MINUTES GOOD TEST.
	08:30 - 09:30	1.00	C	13		DRILL OUT TO 7008'. W/ JT # 223. PRESSURE TEST TO 2000# PSI FOR 30 MINUTES.(LOST 240# PSI IN 30 MINUTES.)
	09:30 - 10:30	1.00	C	13		DRILL OUT TO 9030' FELL THROUGH CMT TEST @ 9040' TO 2000#

RECEIVED June 08, 2010

EL PASO PRODUCTION

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Rig Name: BASIC

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Rig Release:
Rig Number: 1584

Spud Date: 3/20/1983
End:
Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
5/25/2010	09:30 - 10:30	1.00	C	13		PSI LOST 300# IN 30 MINUTES.
	10:30 - 11:30	1.00	C	04		RIH TAG CMT PLUG @ 9040' CIRCULATE WELL CLEAN. RETEST CASING TO 2000# PSI, LOST 300# PSI IN 30 MINUTES. RETEST W/ SAME RESULTS.
	11:30 - 14:30	3.00	C	04		POOH W/ 64 JTS 2-7/8" (222 JTS IN, 108 JTS OUT) 8RD N-80 TBG EOT @ 6976'. SWIFD CSDFD CT.
5/26/2010	06:00 - 08:30	2.50	C	01		CT & TGSM (PUDDLE SQUEEZE) MOL W/ HALLIBURTON CMT EQ., R/U & TEST LINES TO 3000# PSI.
	08:30 - 14:00	5.50	C	14		TGSM (SQUEEZE JOB) FILL W/ 2 BBLS TEST CSG TO 3000# PSI LOST 300# IN 30 MIN., CIRCULATE W/ 20 BBLS, PUMP 50 SX BLENDED CMT @ 16.0#, 1.13 YIELD, W/ 4.7 GAL/SK, PUMP 36 BBLS FRESH, POOH W/ 40 JTS 2-7/8" 8RD N-80 TBG, EOT @ 5732'. PUMP 2 BBLS PRESSURE UP TO 2000# PSI, LET SET FOR 30 MINUTES. 1940# PSI BUMP UP W/ 1/2 BBL TO 2200# PSI., LET SET FOR 30 MINUTES SWI W/ 2040# PSI. RDMOL W/ HALLIBURTON CMT EQ., CSDFD CT.
5/27/2010	06:00 - 12:00	6.00	C	04		CT & TGSM (P/U PWR SWVL) RIH W/ 32 JTS 2-7/8" 8RD N-80 EUE TBG, TAG CMT @ 6752'. PU PWR SWVL, R/U & TEST PUMP & RETURN LINES, BREAK CIRCULATION, DRILL OUT TO 6785'. CMT GREEN. CIRC WELL CLEAN.
	12:00 - 14:00	2.00	C	18		CLEAN OUT CMT IN FLAT TANK. SWIFD CSDFD CT.
5/28/2010	05:00 - 11:30	6.50	C	13		CT & TGSM (DRILLING OUT CMT) TAG CMT @ 6817' DRILL OUT CMT TO 6880' TEST CSG TO 2000# PSI FOR 30 MINUTES. GOOD TEST. CONT DRILLING CMT TO 7025'. TESTING @ 7208' 2000# PSI LOST 100# PSI IN 30 MIN., & TEST @ 7040' LOST 120# PSI IN 30 MINUTES.
	11:30 - 15:30	4.00	C	04		RIH W/ TTL OF 287 JTS TAG @ 9035' CIRCULATE WELL CLEAN. RETEST TO 2000# PSI W/ SAME RESULTS, TEST TO 1000# PSI LOST 10# PSI. IN 30 MINUTES, RETEST W/ SAME RESULTS.
	15:30 - 19:00	3.50	C	04		POOH W/ TBG TO 6912'. RETEST TO 1000# PSI W/ SAME RESULTS. SWIFD W/ 1000# PSI ON WELL W/ CHART RECORDER HOOKED UP. CSDFD CT.
5/29/2010	06:00 - 11:00	5.00	C	18		CT & TGSM (PRESSURE TESTING) PRESSURE READING @ 7:00 AM 945# PSI LOST 55# PSI IN 12 HRS. PRESSURE UP TO 1000# PSI W/ CHART RECORDER NO PRESSURE LOSS. BWD & RETEST W/ SAME RESULTS FOR 30., MINUTES.
	11:00 - 14:00	3.00	C	04		POOH W/ 220 JTS 2-7/8" 8RD EUE TBG, L/D X/O, 4 43/4" DCS, BIT SUB & 6" BIT. R/U CASED HOLE SOLUTIONS.
	14:00 - 16:00	2.00	C	11		RIH W/ CCL, BOND LOG, LOG FROM PBTD TO 6800' W/ 1000# PSI.
	14:00 - 20:00	6.00	C	11		RIH W/ 4 CONS 3-1/8" GUNS 3 JSPF, 120° PHASING PERFORATING 8642' TO 8981' 339 GROSS FT., 87 NET FT., 261 SHOTS. R/D CASED HOLE SOLUTIONS SWIFD, CSDFD CT.
5/30/2010	06:00 - 12:00	6.00	C	04		CT & TGSM (HYDROTESTING) R/U 4-STAR TESTING EQ., MU &

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EL PASO PRODUCTION

Operations Summary Report

Legal Well Name: LAWSON 1-21A1 SWD
Common Well Name: LAWSON 1-21A1 SWD
Event Name: PRODUCTION EQUIPMENT
Contractor Name: BASIC ENERGY SERVICES
Rig Name: BASIC

Start: 5/5/2010
Rig Release:
Rig Number: 1584

Spud Date: 3/20/1983
End:
Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
5/30/2010	06:00 - 12:00	6.00	C	04		RIH W/ 7" WCS RET PLG, RET. HEAD,4' PUP JT., 7" PKR, BEG TESTING TO 8500# PSI, 2 JTS, +45 PSN, 288 JTS, R/D TESTING UNIT.
	12:00 - 15:00	3.00	C	09		P/U 1 JT., SET PLUG @ 9020' & PKR @ 9000' TEST TOOLS TO 2000# PSI GOOD TEST. RELEASE PKR POOH W/ 7 JTS, P/U 2',&10' PUP JTS. SET PKR @ 8845'. SWIFD CSDFD CT.
5/31/2010	06:00 - 06:30	0.50	C	18		CSDFWE, NO ACTIVITY
6/1/2010	06:00 - 09:30	3.50	C	01		CT & TGSM (ACID JOB) MOL W/ HALLIBURTON ACID EQ., R/U TEST LINES & EQ.,
	09:30 - 10:30	1.00	C	21		ACIIZE STAGE 1 PERFS W/ 8000 GAL 15% HCL FLUSH 10 OVER BTM PERF, AVE RATE 9 BPM, MX RATE 10.5 BPM, AVE PRESSURE 4,000# PSI, MAX PRESSURE 4,382# PSI. ISDP @ 1825#, 5/ 1597, 10/ 1447, 15/ 1328# PSI.
	10:30 - 11:30	1.00	C	18		R/D HALLIBURTON R/U FLOWBACK LINES (1 HR FROM ISDP) TSIP @ 700# PSI., FLOW WELL BACK ON 12/64 CHOKE RECOVERED 38 BBLS.
	11:30 - 13:30	2.00	C	04		RELEASE PKR, RET., PLUG @ 9020', PUH & SET PLUG @ 8845', PUH & SET PKR @ 8770'. PRESURE ANNULUS TO 500# PSI., R/U HALLIBURTON. PUMP 4 BBLS @ 1500# PSI BEG TO COMMUNICATE W/ ANNULUS. BWD MOVE PKR UP HOLE 5' W/ SAME RESULTS, MOVE PKR DOWN HOLE 10' W/ SAME RESULTS, RELEASE PKR PUH & SET @ 8700'. PRESSURE UP ON ANNULUS TO 450# PSI MONITORING TBG BEG TO COMMUNICATE. PUH TO 8568'. TEST PKR TO 1000# PSI. WAIT FOR BALLS & BALL GUN.
	13:30 - 19:00	5.50	C	21		TREAT STAGE 2,3&4 PERFS W/ 12,000 GAL 15% HCL W/ 313 BIO-BALLS FOR DIVERSION, AVE RATE 8.5 BPM, MX RATE 9.5 BPM, AVE PRESSURE 4200# PSI, MX PRESSURE @ 4950# PSI, ISDP @ 3160, 5MIN, 2938#, 10 MIN 2873, 15 MIN 2839# PSI, SURGE BALLS OFF PERFS. R/D HALLIBURTON, R/U FLOWBACK LINE (1 HR FROM ISDP) TSIP @ 2700# PSI. FLOWBACK @ 2700# PSI ON 12/64 CHOKE RECOVERED 265 BBLS, RELEASE PKR & CIRCULATE TBG CLEAN. SWIFD CSDFD CT.
6/2/2010	06:00 - 08:30	2.50	C	04		CT & TGSM (RIH W/ TBG) TSIP & CSIP @ 1100# PSI, BWD, PUMP 40 BBLS DOWN TBG. RIH RET. PLUG @ 8845' RIH & SET PLUG @ 9020'. PUH & SET PKR @ 8568'. TEST CASING & PKR TO 1000# PSI.
	08:30 - 09:30	1.00	C	01		MOL W/ HALLIBURTON R/U PUMP TRUCKS TEST LINES & EQ., TO 6000# PSI. JSA ON STEP RATE TEST.
	09:30 - 11:00	1.50	C	08		PUMP STEP RATE TEST AS PROCEDURE. 1/2 BPM 644#, 1 BPM @ 819#, 2 BPM @ 1297#, 3 BPM @ 1805#, 4 BPM @ 2212#, 5 BPM @ 2690#, 6 BPM @ 3140#, 7 BPM @ 3610#, 8 BPM @ 4207#, 9 BPM @ 4909#, 10 BPM @ 5653#. ISDP @ 1800#, 5 MIN. 1491#, 10 MIN @ 1308#, 15 MIN @ 1140#. 1 HR @ 530#.
	11:00 - 18:00	7.00	C	18		RDMOL W/ HALLIBURTON PUMP EQ., R/U SWAB LUB., FLOW WELL BACK @ 12/64 CHOKE, RECOVERED113 BBLS. R/U SWAB MAKING 10 CONS SWAB RUNS RECOVERING 168 BBLS. INT FL @ SURFACE, FNL FL @ 1100'. SWIFD, CSDFD CT. PH READING 5.5
6/3/2010	06:00 - 09:30	3.50	C	18		CT & TGSM (SWABBING) TSIP @ 550# PSI, OPEN W/ 16/64 CHOKE FLOW BACK BBLS.

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EL PASO PRODUCTION

Operations Summary Report

Legal Well Name: LAWSON 1-21A1 SWD
Common Well Name: LAWSON 1-21A1 SWD
Spud Date: 3/20/1983
Event Name: PRODUCTION EQUIPMENT
Start: 5/5/2010
End:
Contractor Name: BASIC ENERGY SERVICES
Rig Release:
Group:
Rig Name: BASIC
Rig Number: 1584

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
6/3/2010	09:30 - 15:00	5.50	C	13		R/U SWAB EQ., MAKE CONS RUNS, INL FL @ SURACE, FNL FL @ 1000' . RECOVER BBLS 207 TTL FLUID. W/ TRACE OF OIL,W/ LOTS OF GAS. B.J CHEMICALS EVALUATED SAMPLE TESTED GOOD Ph OF 7.1
	15:00 - 16:00	1.00	C	08		RELEASE PKR CIRCULATE WELL CLEAN.
	16:00 - 16:00		C	04		RIH RET PLUG @ 9020'. L/D 92 JTS. 2-7/8" 8RD N-80 EUE TBG. EOT @ 6070'. SWIFD CSDFD CT.
6/4/2010	06:00 - 08:00	2.00	C	08		CT & TGSM (LAYING DOWN TBG) TSIP & CSIP @ 500# PSI, BWD, CIRC WELL CLEAN.
	08:00 - 12:00	4.00	C	04		L/D 197 JTS 2-7/8" 8RD N-80 EUE YELLOW BAND WORK STRING TBG 7" PLG & PKR. (STOPPING @ 3402' CIRCULATE 130 BBLS BRINE)
	12:00 - 14:30	2.50	C	18		LOAD 330 JTS YELLOW BAND WORKSTRING ON TRUCKS & SEND TO YARD. PREP & TALLY 271 JTS 2-7/8" 8RD N-80 EUE FIBERGLASS COATED TBG.
	14:30 - 20:00	5.50	C	04		PU MU & RIH W/ 2-7/8" CLR W/ TBG DISC., 1.87 I.D X/N NIPPLE W/ NO-GO, 7" ARROW SET 1 NICKEL COATED WCS PKR W/ CARBIDE SLIPS (RIGHT HAND SET, RIGHT HAND RELEASE) 271 JTS 2-7/8" 8RD N-80 EUE FIBERGLASS COATED TBG. TEMP LAND TBG ON HANGER, EOT @ 8619'. SWIFD, CSDFD CT.

RECEIVED June 08, 2010

From: Brad Hill
To: Chris Kierst; Reinbold, Mark
Date: 6/8/2010 11:00 AM
Subject: Fwd: Lawson 1-21A1 MIT
Attachments: Lawson1-21A1MIT6-6-10.pdf

Can't remember who was looking at this well so you both get the e-mail.

>>> Dennis Ingram 6/8/2010 10:45 AM >>>
We did just finish testing the Lawson 1-21A1 disposal well after El Paso has been working on it to convert from SOW to WDW. The test ran an hour, and we lost ten or fifteen pounds the first thirty minutes then things leveled out and we only lost five psi in the next thirty minutes. I went ahead and gave them a pass on this test because fluids or temperatures may well have been leveling out after pressuring up the backside. If you have a problem with it let me know and we can make them continue testing until 0 psi is lost.

INSPECTION FORM 6

STATE OF UTAH
DIVISION OF OIL GAS AND MINING

INJECTION WELL - PRESSURE TEST

Well Name: Lawson 1-21A1 API Number: 43-013-30738
Qtr/Qtr: NE/SW Section: 21 Township: 1S Range: 1W
Company Name:

Lease: State ___ Fee ✓ Federal ___ Indian ___
Inspector: [illegible] Date: 6/8/10

Initial Conditions:

Tubing - Rate: N/A Pressure: 425 psi

Casing/Tubing Annulus - Pressure: 1060 psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0	1060	425
5	1060	425
10	1060	425
15	1055	425
20	1055	425
25	1055	425
30	1055	425

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: 425 psi

Casing/Tubing Annulus Pressure: 1055 psi

COMMENTS: Original test after Conversion to WDW
tested @ 9:15 AM

Keith Davis
Operator Representative

elpaso Exploration & Production

November 1, 2010

Mr. Brad Hill
Utah DOGM
1594 West North Temple
Suite 1210
P.O. Box 145801
Salt Lake City, UT 84114-5801

RE: Lawson 1-21A1 Salt Water Disposal Application

Brad,
Enclosed please find the step rate test and the water analysis required for El Paso's Application for Injection submitted December 8, 2009.
(revised application submitted Jan 22, 2010, and received Jan 25, 2010)

Sincerely,

Marie OKeefe

Marie OKeefe
Sr. Regulatory Analyst

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NOV 02 2010
DIV. OF OIL, GAS & MINING

El Paso E&P Company, L.P.
1099 18th Street, Suite 1900 Denver, Colorado 80202
tel 303.291.6400 fax 303.291.6487

Lawson 1-21A1 SWD Conversion – Step-Rate Test

Procedure

A step-rate test was pumped on 6/1/10 according to the following schedule in Table 1. The injection test was pumped down 2-7/8" 6.5# N-80 tubing with a packer set at 8568' and a removable bridge plug set at 9020'. The casing and packer were successfully tested to 1000 psi. The injection test was monitored and recorded with a computer van setup and data was recorded at 1.0 second intervals.

Table 1: Step-rate test pump schedule.

Stage	Fluid	Clean	Bttmhole Slurry	Slurry Volume		Elapsed Time		Fluid Percentage
Number	Description	Volume	Rate	Stage	Cum.	Stage	Cum.	Stage
		(gals)	(bpm)	(gals)	(gals)	(min)	(min)	(%)
1	Water	50	0.50	50	50	2.38	2.38	0.90%
2	Water	100	1.00	100	150	2.38	4.76	1.80%
3	Water	200	2.00	200	350	2.38	7.14	3.60%
4	Water	300	3.00	300	650	2.38	9.52	5.41%
5	Water	400	4.00	400	1,050	2.38	11.90	7.21%
6	Water	500	5.00	500	1,550	2.38	14.29	9.01%
7	Water	600	6.00	600	2,150	2.38	16.67	10.81%
8	Water	700	7.00	700	2,850	2.38	19.05	12.61%
9	Water	800	8.00	800	3,650	2.38	21.43	14.41%
10	Water	900	9.00	900	4,550	2.38	23.81	16.22%
11	Water	1,000	10.00	1,000	5,550	2.38	26.19	18.02%
TOTALS	total volume =	5,550		5,550		26.19		100.00%

Measured Data

The computer van recorded data is graphically shown in Figure 1. This graph shows the surface pressure reading and the injection rate over time.

Fracture Pressure Determination

Table 2 shows the measured surface injection pressure and the calculated values leading to a calculated bottom-hole pressure for each injection rate. The hydrostatic pressure values are based on the injection fluid having a specific gravity of 1.011 and a top perf depth of 8642'. The friction values were calculated using a Halliburton graph of fracture pressure vs. flow rate through tubular conductors for 2-7/8" tubing and a fluid viscosity of 1 cp. This graph is shown as Figure 2.

Figure 3 is a graph of the measured surface pressure at the end of each injection rate step time period and the associated calculated bottom-hole pressure. The calculated bottom-hole pressure vs injection rate data points demonstrate an initial slope that flattens after the rate is increased above 2.9 bpm with an associated surface

pressure of 1811 psi and a calculated bottom-hole pressure of 5173. This shows that the surface fracture pressure is above 1811 psi; therefore, ***the maximum approved surface injection pressure is requested to be set at 1811 psi.***

Table 2: Bottom-Hole Pressure calculation table.

Rate (bpm)	Surface Press. (psi)	Hydrostatic Press. (psi)	Friction Loss (psi/100')	Total Friction Loss (psi)	Bottom-Hole Press. (psi)
0	405	3785	0	0	4190
0.5	672	3785	0	0	4457
1	838	3785	0.6	53	4570
2	1300	3785	2.4	211	4874
2.9	1811	3785	4.8	423	5173
3.9	2219	3785	8	705	5299
5.1	2694	3785	14	1234	5245
6	3101	3785	18	1586	5300
7	3602	3785	24	2115	5272
8	4208	3785	31	2731	5262
9	4921	3785	39	3436	5270
10	5647	3785	47	4141	5291

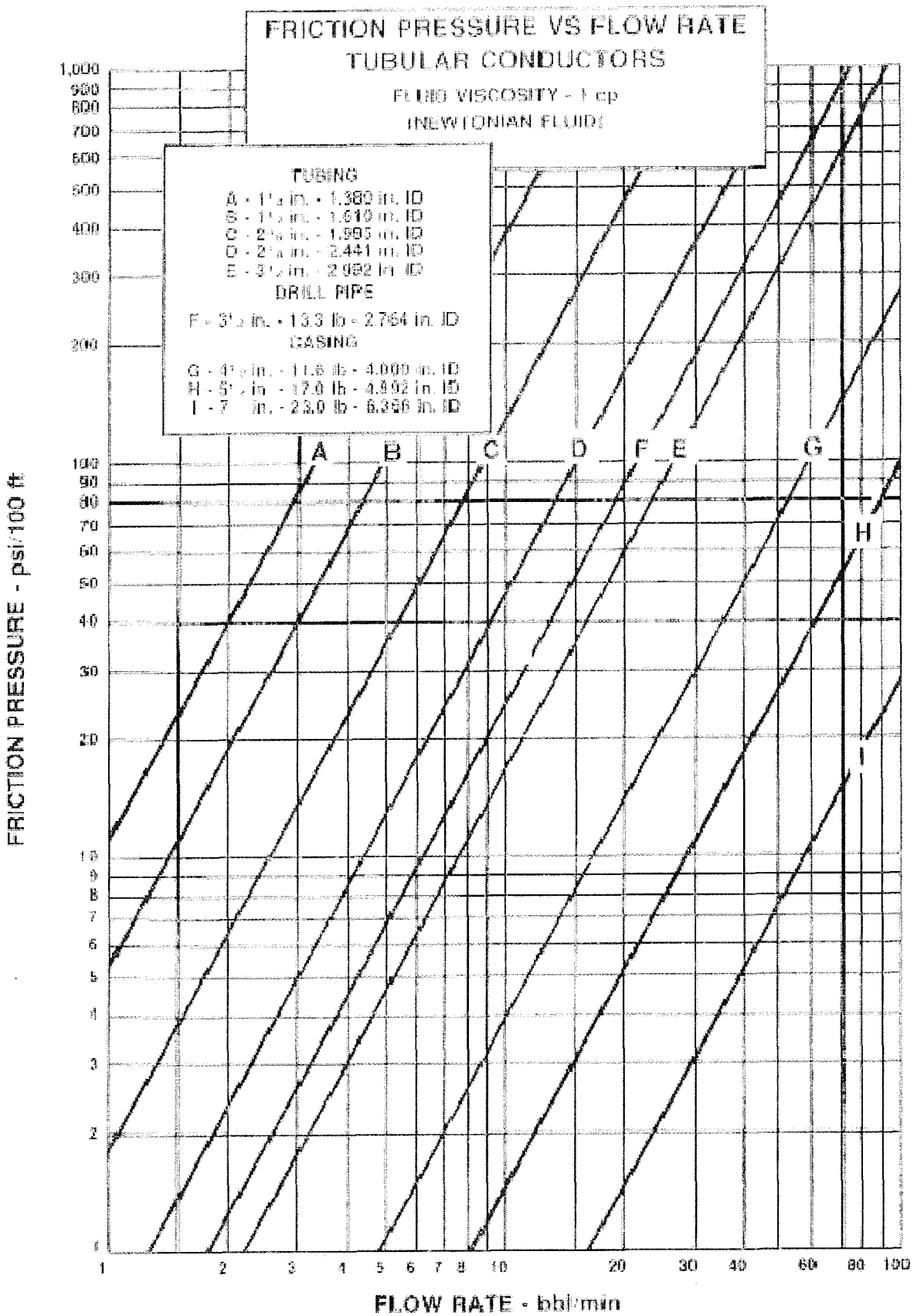

Figure 2: Halliburton friction pressure vs. flow rate for tubular conductors.

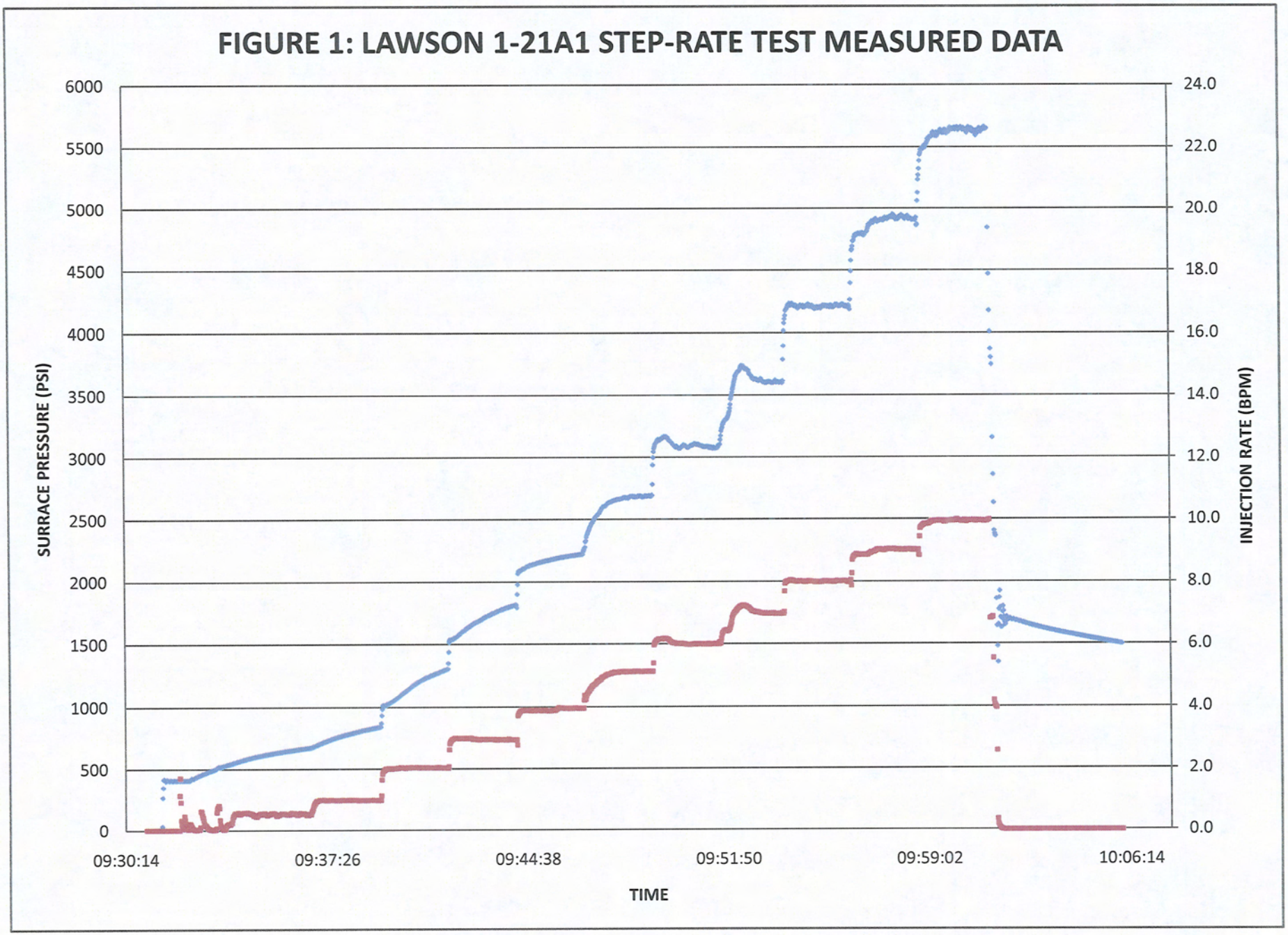
FIGURE 1: LAWSON 1-21A1 STEP-RATE TEST MEASURED DATA
SURRACE PRESSURE (PSI)
INJECTION RATE (BPM)
TIME
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
24.0
22.0
20.0
18.0
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
09:30:14
09:37:26
09:44:38
09:51:50
09:59:02
10:06:14

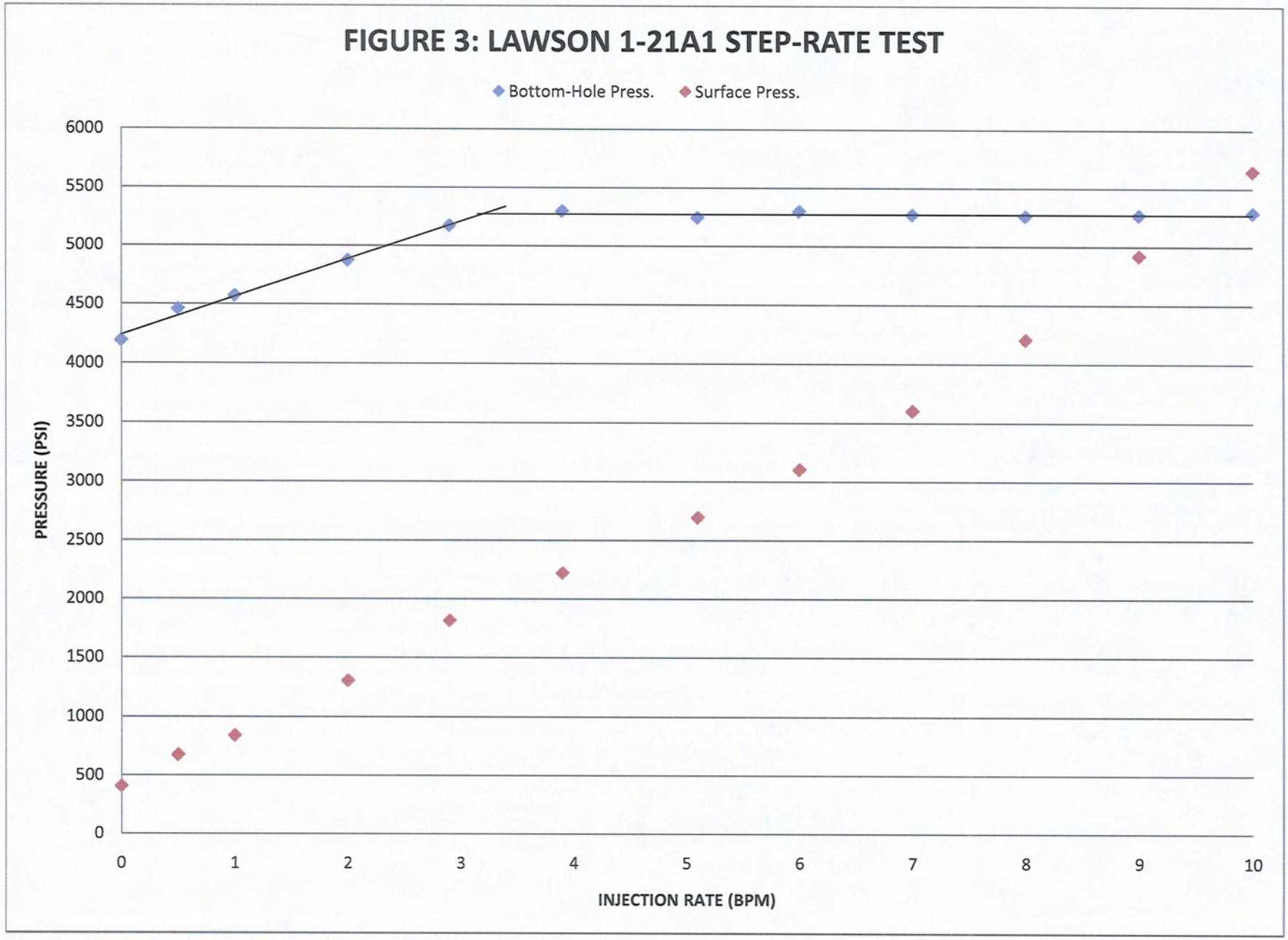
FIGURE 3: LAWSON 1-21A1 STEP-RATE TEST
Bottom-Hole Press.
Surface Press.
PRESSURE (PSI)
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0
1
2
3
4
5
6
7
8
9
10
INJECTION RATE (BPM)

Lawson 1-21A1 SWD Conversion - Water Chemistry Data

Wells to dispose into Lawson 1-21A1 SWD

Water sample analysis are attached for the following wells proposed to dispose into the Lawson 1-21A1 SWD conversion:

Chasel 2-17A1 (43013307320000)

Duncan 2-34A1 (43047399440000)

EJ ASAY 1-20A1 (43013301020000)

Galloway 1-18B1 (43013305750000)

Horrocks 2-20A1 (43013308330000)

J Robertson 1-1B1 (43047301740000)

Lebeau 1-34A1 (43013305900000)

SLB 1-35A1 (43047301820000)

Sprouse 2-18B1 (43013338080000)

Calculated total dissolved solids range from 6633-9380 mg/L, with a pH range from 7.6-7.9.

Commingled Disposal Water

A comingled sample was created by collecting and physically mixing treater water from the above wells. The sample was analyzed with a calculated TDS of 8456 mg/L, just slightly higher than the midrange (TDS = 8007 mg/L) of the individual samples.

Lawson 1-21A1 Swab Samples

Analysis of the Lawson 1-21A1(43013307380000) swab sample A (TDS = 36022 mg/L, pH = 6.8), collected 6/3/10 after acid breakdown of perfs (8642' to 8981') and step-rate test, suggests a high degree of remaining acid disassociation and a sample not representative of injection zone formation fluids.

To acquire a representative water sample of the formation fluids a series of four additional swab samples (B-E) were collected and analyzed from the proposed Lawson 1-21A1 SWD conversion well from August 23-25, 2010. The stepwise decrease in TDS (33126-26360 mg/L) and constant pH=7.4, suggests that sample E (TDS = 26360 (mg/L) is a good representation of the formation fluid.

Compatibility Test

A chemical compatibility test was run between swab sample E and the commingled disposal water. The numeric values for the mixing equations are attached as well as 3D plots showing compatibility indexes from mixing the two waters at various ratios and temperatures. Based on the graphs, there is not significant incompatibility between the two waters at formation temperatures. Both waters show a fairly high scaling tendency for Calcite and Barite, although that number does not increase when combined. The produced water from the SWD has a higher scale tendency by itself, than when mixed with the composite sample from the field.

Basic scale precaution should utilize KCL flush water with scale inhibitor to serve as a protected buffer between the SWD connate water and injection water. Scale inhibitor should be injected continuously with the disposal water to disposal water itself from plugging the tubing or perforations. A corrosion and bacteria control program on the SWD well may also need to be considered.

Multi-Chem Group, LLC
Multi-Chem Analytical Laboratory
1553 East Highway 40
Vernal, UT 84078

multi-chem®

Water Analysis Report

Production Company: **EL PASO PRODUCTION (158)**
Well Name: **Commingled Well's for Lawson 1-21A1 SWD**
Sample Point: **Treater**
Sample Date: **7 /21/2010**
Sales Rep: **Stan Hoopes**
Lab Tech: **John Keel**

Sample ID: **WA-43984**

Sample Specifics

Test Date:	7/23/2010
Temperature (°F):	140
Sample Pressure (psig):	
Specific Gravity (g/cm³):	1.0040
pH:	8.2
Turbidity (NTU):	-
Calculated T.D.S. (mg/L)	8456
Molar Conductivity (µS/cm):	12812
Resitivity (Mohm):	0.7805

Analysis @ Properties in Sample Specifics

Cations	mg/L	Anions	mg/L
Calcium (Ca):	51.00	Chloride (Cl):	4000.00
Magnesium (Mg):	7.00	Sulfate (SO_4):	252.00
Barium (Ba):	2.90	Dissolved CO_2:	-
Strontium (Sr):	-	Bicarbonate (HCO_3):	1098.00
Sodium (Na):	3042.00	Carbonate (CO_3):	-
Potassium (K):	-	H_2S:	0.50
Iron (Fe):	2.10	Phosphate (PO_4):	-
Manganese (Mn):	0.10	Silica (SiO_2):	-
Lithium (Li):	-	Fluoride (F):	-
Aluminum (Al):	-	Nitrate (NO_3):	-
Ammonia NH_3:	-	Lead (Pb):	-
		Zinc (Zn):	-
		Bromine (Br):	-
		Boron (B):	-

Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl

Test Conditions		Calcium Carbonate $CaCO_3$		Gypsum $CaSO_4 \cdot 2H_2O$		Calcium Sulfate $CaSO_4$		Strontium Sulfate $SrSO_4$		Barium Sulfate $BaSO_4$		Calculated CO_2
Temp °F	Gauge Press. psi	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	psi
140		*16.27*	*36.48*	*0.01*	*-1728.60*	*0.01*	*-1718.90*	-	-	*9.75*	*4.42*	*0.17*
80	0	8.43	22.80	0.01	-0.47	0.01	-2350.90	-	-	31.69	4.77	0.09
100	0	11.16	28.14	0.01	4.13	0.01	-2200.60	-	-	20.93	4.69	0.11
120	0	13.77	32.59	0.01	7.07	0.01	-1979.40	-	-	14.13	4.58	0.12
140	0	16.27	36.48	0.01	8.67	0.01	-1718.90	-	-	9.75	4.42	0.13
160	0	18.42	39.35	0.01	9.15	0.01	-1445.90	-	-	6.85	4.20	0.15
180	0	20.04	40.87	0.01	8.91	0.02	-1180.80	-	-	4.89	3.91	0.16
200	0	21.00	40.84	0.02	8.32	0.02	-936.96	-	-	3.54	3.53	0.16
220	2.51	21.11	39.64	0.02	7.66	0.04	-730.58	-	-	2.55	2.98	0.16
240	10.3	20.72	36.96	0.02	6.97	0.06	-545.41	-	-	1.88	2.30	0.17
260	20.76	19.81	33.44	0.02	6.31	0.09	-390.91	-	-	1.40	1.40	0.17
280	34.54	18.50	29.50	0.02	5.67	0.15	-264.79	-	-	1.05	0.24	0.17
300	52.34	16.92	25.56	0.02	4.99	0.26	-163.80	-	-	0.79	-1.27	0.17

Conclusions:

Calcium Carbonate scale is indicated at all temps from 80°F to 300°F
Gypsum Scaling Index is negative from 80°F to 300°F
Calcium Sulfate Scaling Index is negative from 80°F to 300°F
Strontium Sulfate scaling was not evaluated
Barium Sulfate NO CONCLUSION

Notes:

Multi-Chem Group, LLC
Multi-Chem Analytical Laboratory
1553 East Highway 40
Vernal, UT 84078

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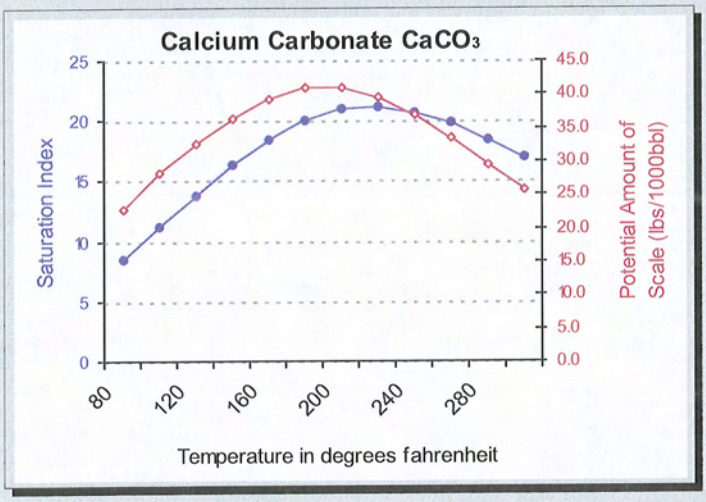
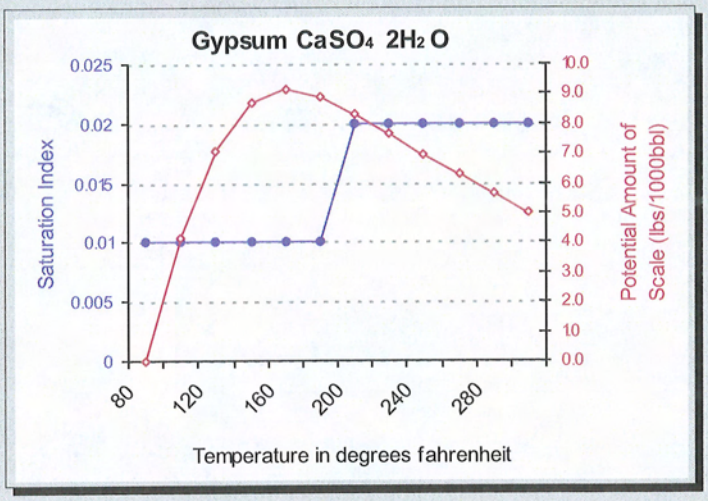
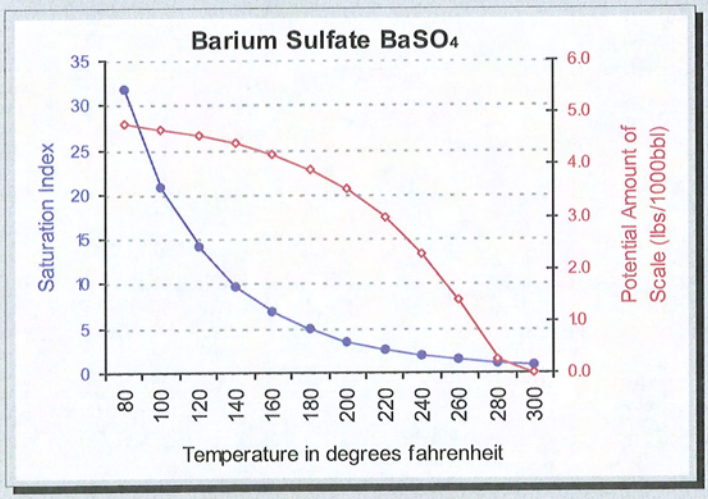
Scale Prediction Graphs

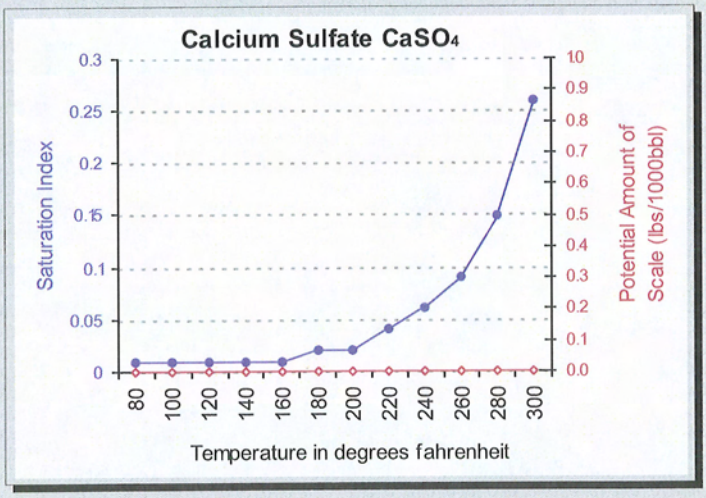
Well Name: **Commingled Well's for Lawson 1-21A1 SWD**

Sample ID: **WA-43984**









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Water Analysis Report

Production Company: **EL PASO E & P 12480 ALTAMONT UT**
Well Name: **CHASEL 2-17A1**
Sample Point: **Treater**
Sample Date: **6 /24/2010**
Sales Rep: **Stan Hoopes**
Lab Tech: **John Keel**

Sample ID: **WA-42944**

Sample Specifics

Test Date:	6/24/2010
Temperature (°F):	150
Sample Pressure (psig):	60
Specific Gravity (g/cm³):	1.0050
pH:	7.8
Turbidity (NTU):	-
Calculated T.D.S. (mg/L)	8781
Molar Conductivity (µS/cm):	13305
Resitivity (Mohm):	0.7516

Analysis @ Properties in Sample Specifics

Cations	*mg/L*	*Anions*	*mg/L*
Calcium (Ca):	71.00	Chloride (Cl):	4000.00
Magnesium (Mg):	6.60	Sulfate (SO_4):	922.00
Barium (Ba):	1.40	Dissolved CO_2:	7.92
Strontium (Sr):	-	Bicarbonate (HCO_3):	610.00
Sodium (Na):	3149.00	Carbonate (CO_3):	-
Potassium (K):	-	H_2S:	6.00
Iron (Fe):	6.90	Phosphate (PO_4):	-
Manganese (Mn):	0.20	Silica (SiO_2):	-
Lithium (Li):	-	Fluoride (F):	-
Aluminum (Al):	-	Nitrate (NO_3):	-
Ammonia NH_3:	-	Lead (Pb):	-
		Zinc (Zn):	-
		Bromine (Br):	-
		Boron (B):	-

Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl

Test Conditions		Calcium Carbonate $CaCO_3$		Gypsum $CaSO_4 \cdot 2H_2O$		Calcium Sulfate $CaSO_4$		Strontium Sulfate $SrSO_4$		Barium Sulfate $BaSO_4$		Calculated CO_2
Temp °F	Gauge Press. psi	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	psi
150	*60*	*5.19*	*8.41*	*0.06*	*-1380.00*	*0.05*	*-1358.40*	-	-	*12.07*	*2.18*	*0.24*
80	0	2.15	3.30	0.05	-12.16	0.03	-2182.20	-	-	46.22	2.33	0.11
100	0	2.95	4.94	0.04	-8.43	0.03	-2015.70	-	-	30.73	2.30	0.14
120	0	3.80	6.38	0.05	-5.57	0.04	-1777.40	-	-	20.86	2.26	0.16
140	0	4.72	7.76	0.05	-3.33	0.04	-1501.30	-	-	14.42	2.21	0.18
160	0	5.65	9.03	0.06	-1.62	0.06	-1216.30	-	-	10.13	2.14	0.20
180	0	6.51	10.11	0.07	-0.38	0.08	-943.92	-	-	7.22	2.05	0.22
200	0	7.23	10.92	0.07	0.45	0.11	-698.28	-	-	5.21	1.92	0.22
220	2.51	7.69	11.44	0.07	0.91	0.16	-495.63	-	-	3.73	1.74	0.23
240	10.3	7.94	11.49	0.08	1.11	0.24	-320.22	-	-	2.74	1.51	0.23
260	20.76	7.94	11.13	0.08	1.11	0.38	-181.07	-	-	2.03	1.20	0.23
280	34.54	7.71	10.45	0.09	0.98	0.62	-75.05	-	-	1.51	0.80	0.24
300	52.34	7.28	9.54	0.09	0.77	1.02	2.66	-	-	1.13	0.27	0.24

Conclusions:

Calcium Carbonate scale is indicated at all temps from 80°F to 300°F

Gypsum Scaling Index is negative from 80°F to 300°F

Calcium Sulfate scale is indicated. See graph for appropriate temperature ranges.

Strontium Sulfate scaling was not evaluated

Barium Sulfate scale is indicated at all temps from 80°F to 300°F

Notes:

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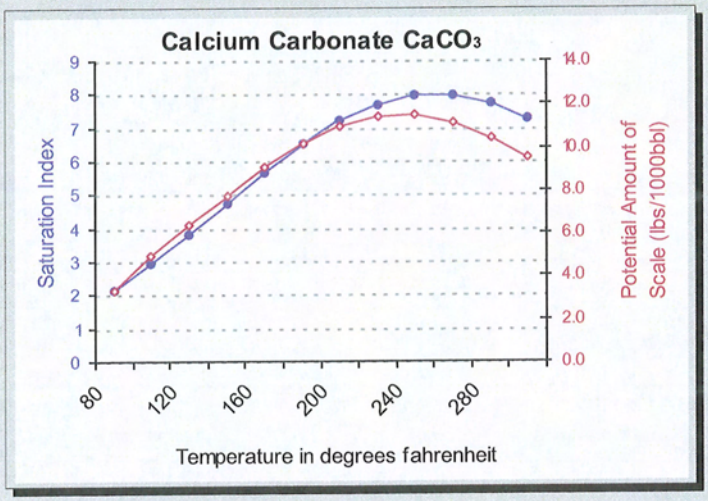
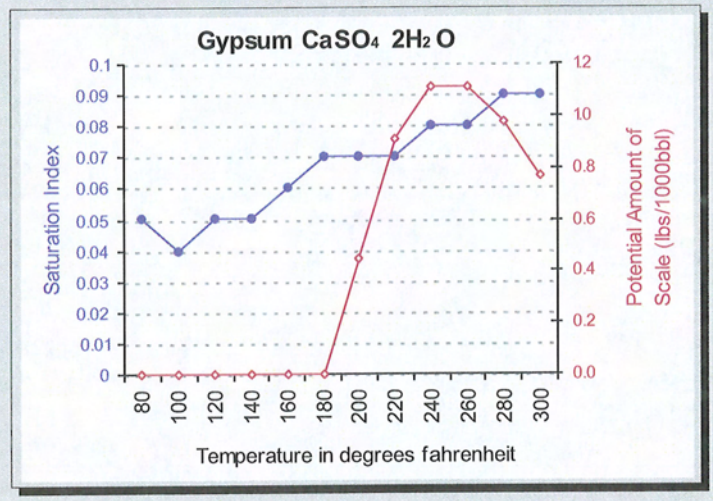
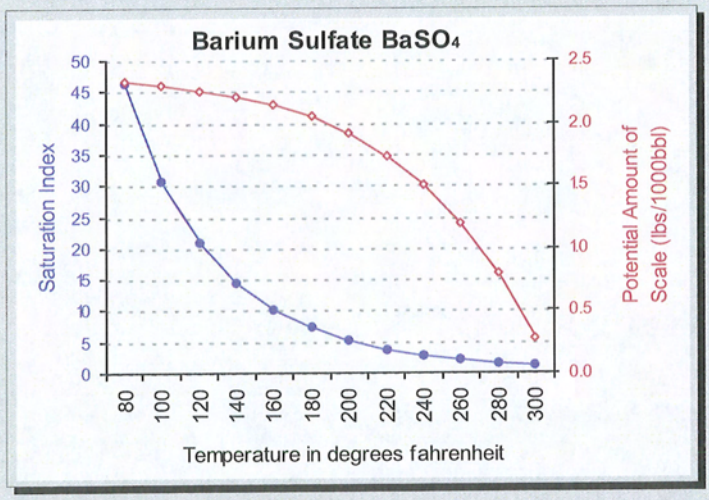
Scale Prediction Graphs

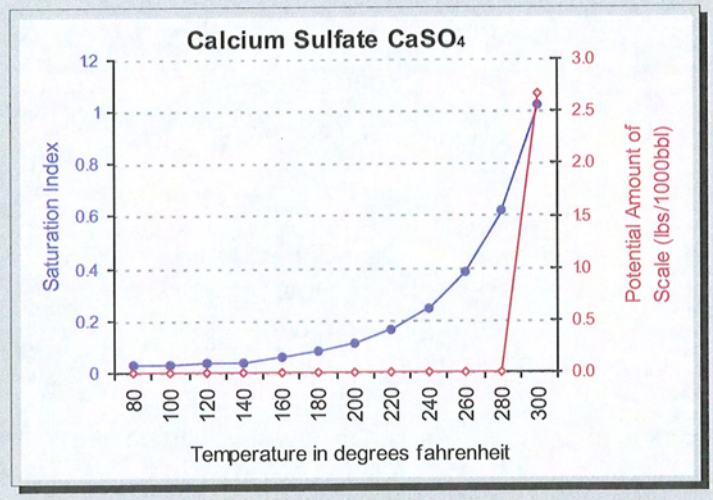
Well Name: **CHASEL 2-17A1**

Sample ID: **WA-42944**









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Water Analysis Report

Production Company: **EL PASO E & P 12480 ALTAMONT UT**
Well Name: **DUNCAN 2-34A 1**
Sample Point: **Treater**
Sample Date: **6 /14/2010**
Sales Rep: **Stan Hoopes**
Lab Tech: **John Keel**

Sample ID: **WA-42470**

Sample Specifics

Test Date:	6/15/2010
Temperature (°F):	150
Sample Pressure (psig):	60
Specific Gravity (g/cm³):	1.0050
pH:	7.8
Turbidity (NTU):	-
Calculated T.D.S. (mg/L)	6993
Molar Conductivity (µS/cm):	10595
Resitivity (Mohm):	0.9438

Analysis @ Properties in Sample Specifics

Cations	mg/L	Anions	mg/L
Calcium (Ca):	16.00	Chloride (Cl):	3000.00
Magnesium (Mg):	2.00	Sulfate (SO_4):	199.00
Barium (Ba):	3.00	Dissolved CO_2:	19.80
Strontium (Sr):	-	Bicarbonate (HCO_3):	1269.00
Sodium (Na):	2482.00	Carbonate (CO_3):	-
Potassium (K):	-	H_2S:	1.00
Iron (Fe):	1.00	Phosphate (PO_4):	-
Manganese (Mn):	0.05	Silica (SiO_2):	-
Lithium (Li):	-	Fluoride (F):	-
Aluminum (Al):	-	Nitrate (NO_3):	-
Ammonia NH_3:	-	Lead (Pb):	-
		Zinc (Zn):	-
		Bromine (Br):	-
		Boron (B):	-

Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl

Test Conditions		Calcium Carbonate $CaCO_3$		Gypsum $CaSO_4 \cdot 2H_2O$		Calcium Sulfate $CaSO_4$		Strontium Sulfate $SrSO_4$		Barium Sulfate $BaSO_4$		Calculated CO_2
Temp °F	Gauge Press. psi	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	psi
150	*60*	*2.70*	*9.14*	*0.00*	*-1685.80*	*0.00*	*-1620.50*	-	-	*7.22*	*4.39*	*0.53*
80	0	1.22	1.74	0.00	-13.12	0.00	-2410.30	-	-	27.23	4.91	0.25
100	0	1.65	4.44	0.00	-9.12	0.00	-2248.80	-	-	18.19	4.81	0.31
120	0	2.07	6.61	0.00	-6.15	0.00	-2020.70	-	-	12.40	4.68	0.34
140	0	2.49	8.41	0.00	-3.96	0.00	-1757.20	-	-	8.61	4.50	0.39
160	0	2.89	9.75	0.00	-2.46	0.00	-1484.30	-	-	6.08	4.25	0.44
180	0	3.24	10.58	0.00	-1.50	0.00	-1221.30	-	-	4.36	3.92	0.48
200	0	3.51	10.94	0.00	-0.95	0.01	-980.83	-	-	3.17	3.47	0.49
220	2.51	3.68	11.00	0.00	-0.66	0.01	-778.05	-	-	2.28	2.85	0.49
240	10.3	3.78	10.84	0.00	-0.51	0.01	-597.30	-	-	1.69	2.07	0.50
260	20.76	3.80	10.58	0.00	-0.45	0.02	-447.31	-	-	1.26	1.06	0.51
280	34.54	3.75	10.28	0.00	-0.43	0.03	-325.79	-	-	0.95	-0.25	0.52
300	52.34	3.63	9.94	0.00	-0.45	0.05	-229.51	-	-	0.72	-1.94	0.53

Conclusions:

Calcium Carbonate scale is indicated at all temps from 80°F to 300°F
Gypsum Scaling Index is negative from 80°F to 300°F
Calcium Sulfate Scaling Index is negative from 80°F to 300°F
Strontium Sulfate scaling was not evaluated
Barium Sulfate NO CONCLUSION

Notes:

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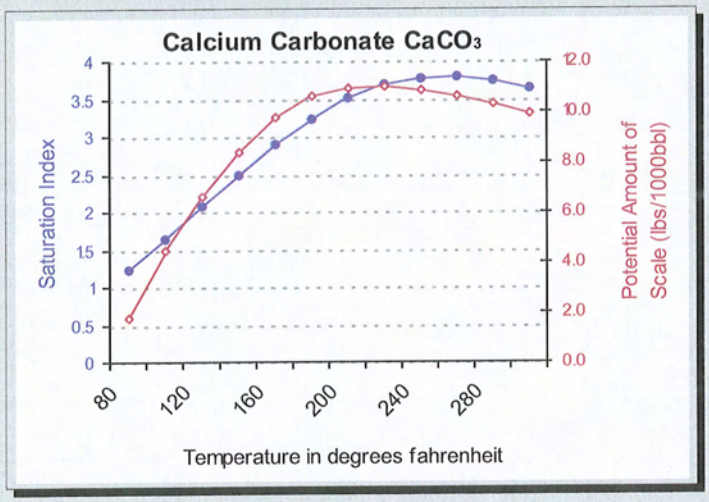
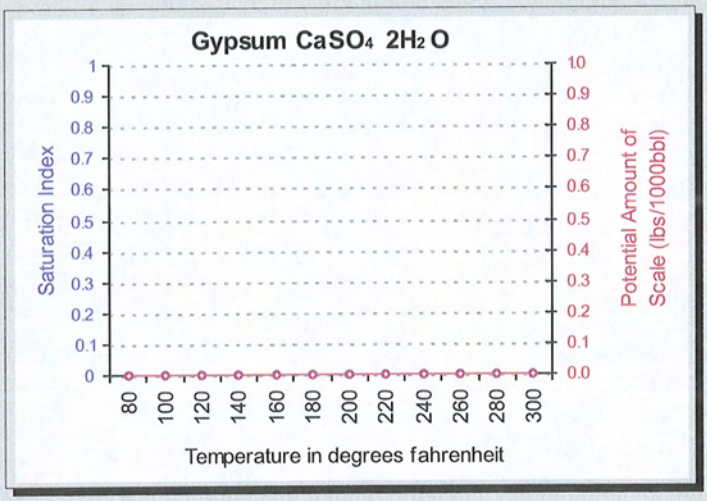
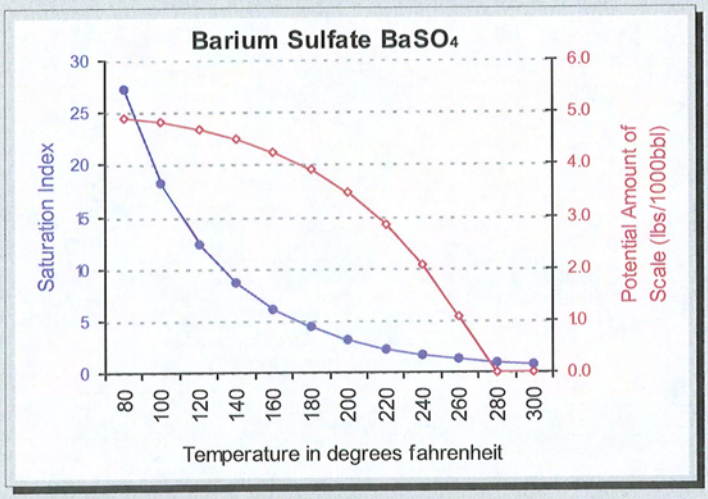
Scale Prediction Graphs

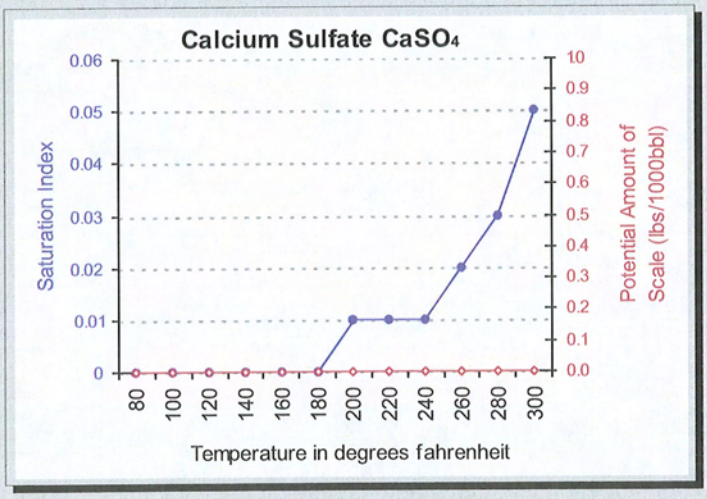
Well Name: **DUNCAN 2-34A 1**

Sample ID: **WA-42470**









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Water Analysis Report

Production Company: **EL PASO E & P 12480 ALTAMONT UT**
Well Name: **E J ASAY 1-20A 1**
Sample Point: **Treater**
Sample Date: **6 /14/2010**
Sales Rep: **Stan Hoopes**
Lab Tech: **John Keel**

Sample ID: **WA-42473**

Sample Specifics

Test Date:	6/18/2010
Temperature (°F):	150
Sample Pressure (psig):	60
Specific Gravity (g/cm³):	1.0050
pH:	7.9
Turbidity (NTU):	-
Calculated T.D.S. (mg/L)	8216
Molar Conductivity (µS/cm):	12449
Resitivity (Mohm):	0.8033

Analysis @ Properties in Sample Specifics

Cations	mg/L	Anions	mg/L
Calcium (Ca):	34.00	Chloride (Cl):	4000.00
Magnesium (Mg):	3.00	Sulfate (SO_4):	350.00
Barium (Ba):	1.00	Dissolved CO_2:	11.88
Strontium (Sr):	-	Bicarbonate (HCO_3):	805.20
Sodium (Na):	3004.00	Carbonate (CO_3):	-
Potassium (K):	-	H_2S:	6.00
Iron (Fe):	1.20	Phosphate (PO_4):	-
Manganese (Mn):	0.05	Silica (SiO_2):	-
Lithium (Li):	-	Fluoride (F):	-
Aluminum (Al):	-	Nitrate (NO_3):	-
Ammonia NH_3:	-	Lead (Pb):	-
		Zinc (Zn):	-
		Bromine (Br):	-
		Boron (B):	-

Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl

Test Conditions		Calcium Carbonate $CaCO_3$		Gypsum $CaSO_4 \cdot 2H_2O$		Calcium Sulfate $CaSO_4$		Strontium Sulfate $SrSO_4$		Barium Sulfate $BaSO_4$		Calculated CO_2
Temp °F	Gauge Press. psi	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	psi
150	*60*	*4.51*	*12.49*	*0.01*	*-1693.40*	*0.01*	*-1634.80*	-	-	*3.58*	*1.22*	*0.26*
80	0	1.94	4.64	0.01	-13.68	0.01	-2463.40	-	-	13.66	1.57	0.12
100	0	2.65	7.21	0.01	-9.54	0.01	-2295.30	-	-	9.09	1.51	0.15
120	0	3.37	9.44	0.01	-6.39	0.01	-2056.10	-	-	6.18	1.42	0.17
140	0	4.13	11.52	0.01	-3.99	0.01	-1778.80	-	-	4.27	1.30	0.19
160	0	4.87	13.37	0.01	-2.26	0.01	-1491.20	-	-	3.01	1.13	0.21
180	0	5.51	14.85	0.01	-1.10	0.02	-1214.00	-	-	2.15	0.91	0.23
200	0	6.01	15.84	0.01	-0.42	0.02	-960.48	-	-	1.55	0.60	0.24
220	2.51	6.28	16.33	0.01	-0.09	0.03	-747.27	-	-	1.11	0.17	0.24
240	10.3	6.39	16.15	0.02	0.05	0.05	-557.00	-	-	0.82	-0.38	0.24
260	20.76	6.30	15.42	0.02	0.05	0.08	-399.47	-	-	0.61	-1.09	0.25
280	34.54	6.05	14.26	0.02	-0.03	0.12	-272.36	-	-	0.45	-2.04	0.25
300	52.34	5.68	12.85	0.02	-0.17	0.21	-172.35	-	-	0.34	-3.27	0.26

Conclusions:

Calcium Carbonate scale is indicated at all temps from 80°F to 300°F
Gypsum Scaling Index is negative from 80°F to 300°F
Calcium Sulfate Scaling Index is negative from 80°F to 300°F
Strontium Sulfate scaling was not evaluated
Barium Sulfate NO CONCLUSION

Notes:

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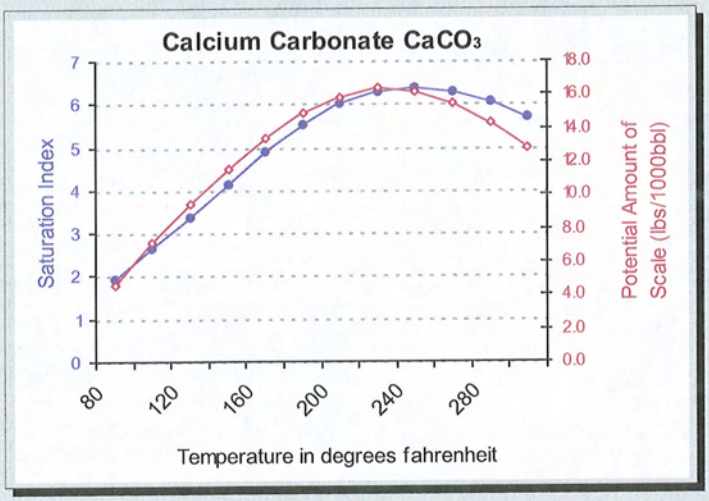
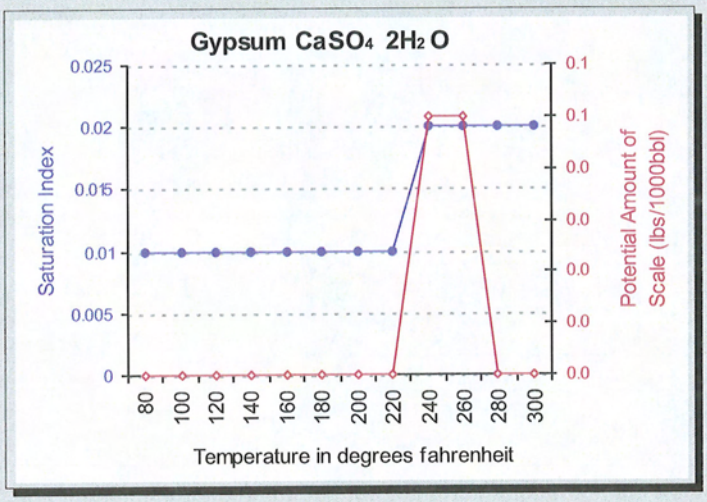
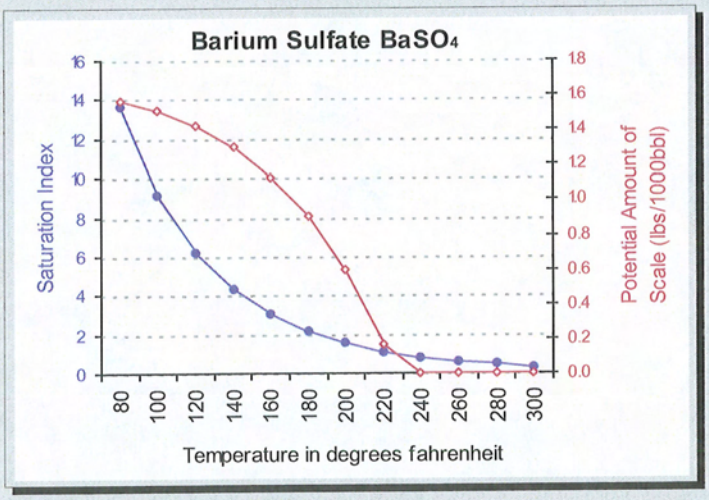
Scale Prediction Graphs

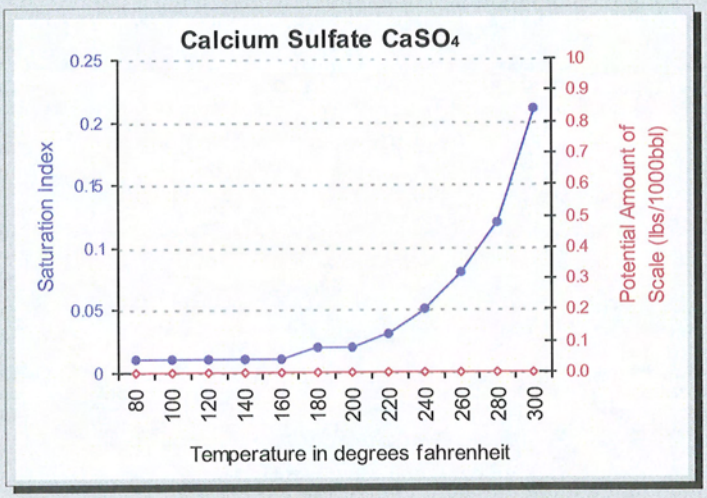
Well Name: **E J ASAY 1-20A 1**

Sample ID: **WA-42473**









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Water Analysis Report

Production Company: **EL PASO E & P 12480 ALTAMONT UT**
Well Name: **GALLOWAY 1-18B1**
Sample Point: **Separator**
Sample Date: **5 /20/2010**
Sales Rep: **Stan Hoopes**
Lab Tech: **John Keel**

Sample ID: **WA-41455**

Sample Specifics

Test Date:	5/25/2010
Temperature (°F):	
Sample Pressure (psig):	
Specific Gravity (g/cm³):	1.0040
pH:	7.9
Turbidity (NTU):	-
Calculated T.D.S. (mg/L)	
Molar Conductivity (µS/cm):	
Resitivity (Mohm):	

Analysis @ Properties in Sample Specifics

Cations	*mg/L*	*Anions*	*mg/L*
Calcium (Ca):	19.00	Chloride (Cl):	4000.00
Magnesium (Mg):	1.90	Sulfate (SO_4):	163.00
Barium (Ba):	1.50	Dissolved CO_2:	-
Strontium (Sr):	-	Bicarbonate (HCO_3):	-
Sodium (Na):	-	Carbonate (CO_3):	-
Potassium (K):	-	H_2S:	1.00
Iron (Fe):	0.06	Phosphate (PO_4):	-
Manganese (Mn):	0.03	Silica (SiO_2):	-
Lithium (Li):	-	Fluoride (F):	-
Aluminum (Al):	-	Nitrate (NO_3):	-
Ammonia NH_3:	-	Lead (Pb):	-
		Zinc (Zn):	-
		Bromine (Br):	-
		Boron (B):	-

Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl

Test Conditions		Calcium Carbonate $CaCO_3$		Gypsum $CaSO_4 \cdot 2H_2O$		Calcium Sulfate $CaSO_4$		Strontium Sulfate $SrSO_4$		Barium Sulfate $BaSO_4$		Calculated CO_2
Temp °F	Gauge Press. psi	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	psi
								-	-			
								-	-			
								-	-			
								-	-			
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								-	-			
								-	-			
								-	-			

Conclusions:

Calcium Carbonate NO CONCLUSION
Gypsum NO CONCLUSION
Calcium Sulfate NO CONCLUSION
Strontium Sulfate NO CONCLUSION
Barium Sulfate NO CONCLUSION

Notes:

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Scale Prediction Graphs

Well Name: **GALLOWAY 1-18B1**

Sample ID: **WA-41455**

Calcium Carbonate $CaCO_3$

Gypsum $CaSO_4$ $2H_2O$

Barium Sulfate $BaSO_4$

Calcium Sulfate $CaSO_4$

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Water Analysis Report

Production Company: **EL PASO E & P 12480 ALTAMONT UT**
Well Name: **HORROCKS 2-20 A1**
Sample Point: **Treater**
Sample Date: **6 /24/2010**
Sales Rep: **Stan Hoopes**
Lab Tech: **John Keel**

Sample ID: **WA-42945**

Sample Specifics

Test Date:	6/24/2010
Temperature (°F):	150
Sample Pressure (psig):	60
Specific Gravity (g/cm³):	1.0080
pH:	7.7
Turbidity (NTU):	-
Calculated T.D.S. (mg/L)	8682
Molar Conductivity (µS/cm):	13154
Resitivity (Mohm):	0.7602

Analysis @ Properties in Sample Specifics

Cations	mg/L	Anions	mg/L
Calcium (Ca):	771.00	Chloride (Cl):	5000.00
Magnesium (Mg):	69.00	Sulfate (SO_4):	200.00
Barium (Ba):	7.80	Dissolved CO_2:	3.96
Strontium (Sr):	-	Bicarbonate (HCO_3):	231.80
Sodium (Na):	2368.00	Carbonate (CO_3):	-
Potassium (K):	-	H_2S:	1.00
Iron (Fe):	26.00	Phosphate (PO_4):	-
Manganese (Mn):	3.40	Silica (SiO_2):	-
Lithium (Li):	-	Fluoride (F):	-
Aluminum (Al):	-	Nitrate (NO_3):	-
Ammonia NH_3:	-	Lead (Pb):	-
		Zinc (Zn):	-
		Bromine (Br):	-
		Boron (B):	-

Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl

Test Conditions		Calcium Carbonate $CaCO_3$		Gypsum $CaSO_4 \cdot 2H_2O$		Calcium Sulfate $CaSO_4$		Strontium Sulfate $SrSO_4$		Barium Sulfate $BaSO_4$		Calculated CO_2
Temp °F	Gauge Press. psi	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	psi
150	*60*	*15.89*	*2.26*	*0.11*	*-1022.10*	*0.10*	*-1033.20*	-	-	*9.07*	*11.73*	*0.11*
80	0	7.29	1.50	0.09	-1.04	0.05	-1820.10	-	-	36.69	12.88	0.05
100	0	9.79	1.80	0.08	-0.14	0.06	-1659.50	-	-	23.97	12.68	0.07
120	0	12.26	2.02	0.09	0.48	0.07	-1430.10	-	-	16.01	12.39	0.07
140	0	14.72	2.20	0.11	0.92	0.09	-1167.50	-	-	10.91	11.99	0.08
160	0	16.99	2.32	0.12	1.23	0.11	-901.36	-	-	7.57	11.43	0.09
180	0	18.90	2.39	0.13	1.43	0.16	-654.00	-	-	5.33	10.67	0.10
200	0	20.36	2.40	0.15	1.54	0.23	-439.57	-	-	3.81	9.65	0.10
220	2.51	21.11	2.40	0.16	1.61	0.33	-271.35	-	-	2.72	8.23	0.11
240	10.3	21.49	2.34	0.17	1.61	0.51	-135.03	-	-	1.99	6.42	0.11
260	20.76	21.37	2.25	0.18	1.57	0.81	-35.08	-	-	1.47	4.08	0.11
280	34.54	20.87	2.14	0.19	1.51	1.30	34.91	-	-	1.09	1.08	0.11
300	52.34	20.04	2.03	0.19	1.44	2.14	82.25	-	-	0.82	-2.72	0.11

Conclusions:

Calcium Carbonate scale is indicated at all temps from 80°F to 300°F

Gypsum Scaling Index is negative from 80°F to 300°F

Calcium Sulfate scale is indicated. See graph for appropriate temperature ranges.

Strontium Sulfate scaling was not evaluated

Barium Sulfate NO CONCLUSION

Notes:

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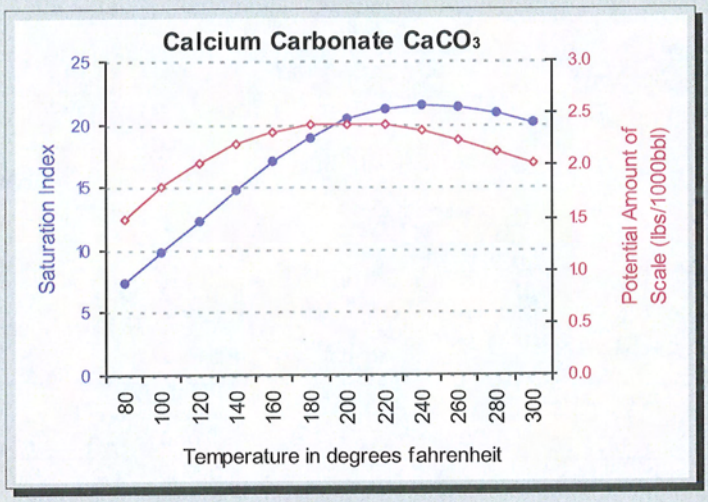
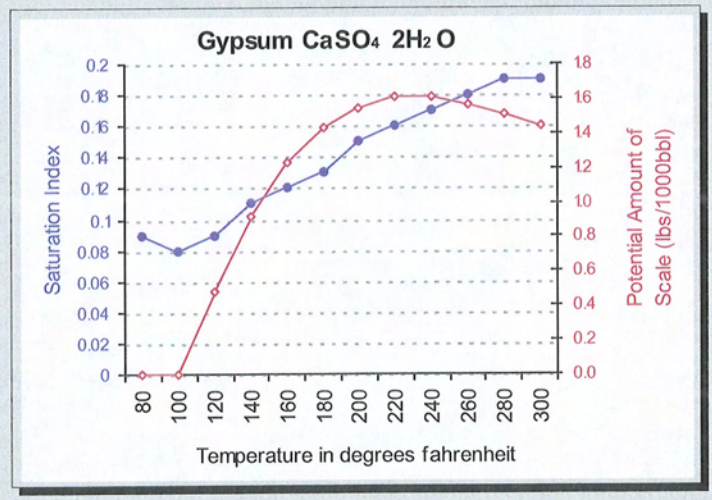
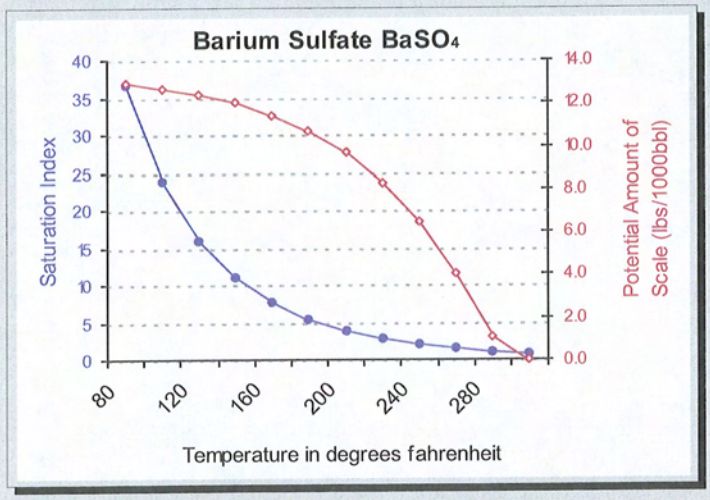
Scale Prediction Graphs

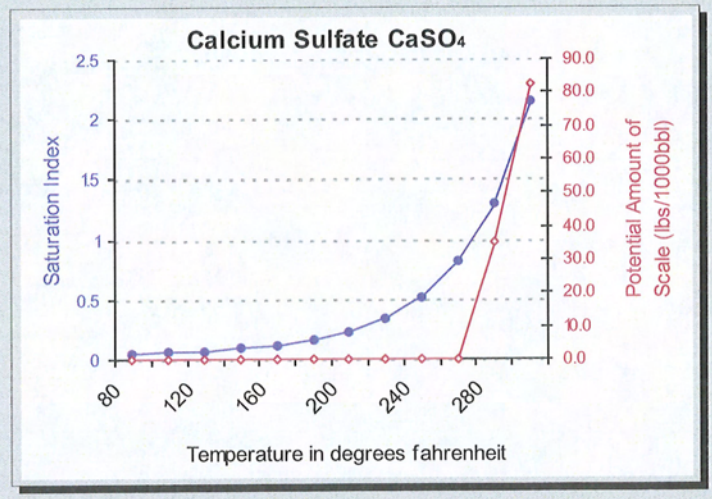
Well Name: **HORROCKS 2-20 A1**

Sample ID: **WA-42945**









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Water Analysis Report

Production Company: **EL PASO E & P 12480 ALTAMONT UT**
Well Name: **J. ROBERTSON 1-1B1**
Sample Point: **Treater**
Sample Date: **6 /14/2010**
Sales Rep: **Stan Hoopes**
Lab Tech: **John Keel**

Sample ID: **WA-42462**

Sample Specifics

Test Date:	6/18/2010
Temperature (°F):	150
Sample Pressure (psig):	60
Specific Gravity (g/cm³):	1.0050
pH:	7.6
Turbidity (NTU):	-
Calculated T.D.S. (mg/L)	7067
Molar Conductivity (µS/cm):	10707
Resitivity (Mohm):	0.9340

Analysis @ Properties in Sample Specifics

Cations	mg/L	Anions	mg/L
Calcium (Ca):	16.00	Chloride (Cl):	3000.00
Magnesium (Mg):	1.20	Sulfate (SO_4):	282.00
Barium (Ba):	1.50	Dissolved CO_2:	0.40
Strontium (Sr):	-	Bicarbonate (HCO_3):	1244.00
Sodium (Na):	2511.00	Carbonate (CO_3):	-
Potassium (K):	-	H_2S:	5.00
Iron (Fe):	5.40	Phosphate (PO_4):	-
Manganese (Mn):	0.10	Silica (SiO_2):	-
Lithium (Li):	-	Fluoride (F):	-
Aluminum (Al):	-	Nitrate (NO_3):	-
Ammonia NH_3:	-	Lead (Pb):	-
		Zinc (Zn):	-
		Bromine (Br):	-
		Boron (B):	-

Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl

Test Conditions		Calcium Carbonate $CaCO_3$		Gypsum $CaSO_4 \cdot 2H_2O$		Calcium Sulfate $CaSO_4$		Strontium Sulfate $SrSO_4$		Barium Sulfate $BaSO_4$		Calculated CO_2
Temp °F	Gauge Press. psi	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	psi
150	*60*	*1.68*	*4.00*	*0.00*	*-1641.80*	*0.00*	*-1582.10*	-	-	*5.05*	*2.04*	*0.83*
80	0	0.74	-2.09	0.00	-16.39	0.00	-2372.70	-	-	19.05	2.41	0.38
100	0	1.00	0.01	0.00	-12.57	0.00	-2211.20	-	-	12.72	2.35	0.47
120	0	1.27	1.76	0.00	-9.63	0.00	-1982.80	-	-	8.67	2.25	0.53
140	0	1.54	3.31	0.00	-7.33	0.00	-1718.90	-	-	6.02	2.12	0.59
160	0	1.81	4.63	0.00	-5.55	0.00	-1445.80	-	-	4.25	1.95	0.67
180	0	2.06	5.67	0.01	-4.23	0.01	-1182.90	-	-	3.04	1.71	0.74
200	0	2.26	6.42	0.01	-3.27	0.01	-942.95	-	-	2.21	1.39	0.75
220	2.51	2.40	6.86	0.01	-2.63	0.01	-741.04	-	-	1.59	0.94	0.76
240	10.3	2.51	7.06	0.01	-2.16	0.02	-561.63	-	-	1.18	0.38	0.78
260	20.76	2.56	7.06	0.01	-1.84	0.02	-413.51	-	-	0.88	-0.35	0.79
280	34.54	2.56	6.93	0.01	-1.63	0.04	-294.52	-	-	0.66	-1.30	0.81
300	52.34	2.52	6.70	0.01	-1.50	0.06	-201.49	-	-	0.50	-2.53	0.83

Conclusions:

Calcium Carbonate scale is indicated. See graph for appropriate temperature ranges.
Gypsum Scaling Index is negative from 80°F to 300°F
Calcium Sulfate Scaling Index is negative from 80°F to 300°F
Strontium Sulfate scaling was not evaluated
Barium Sulfate NO CONCLUSION

Notes:

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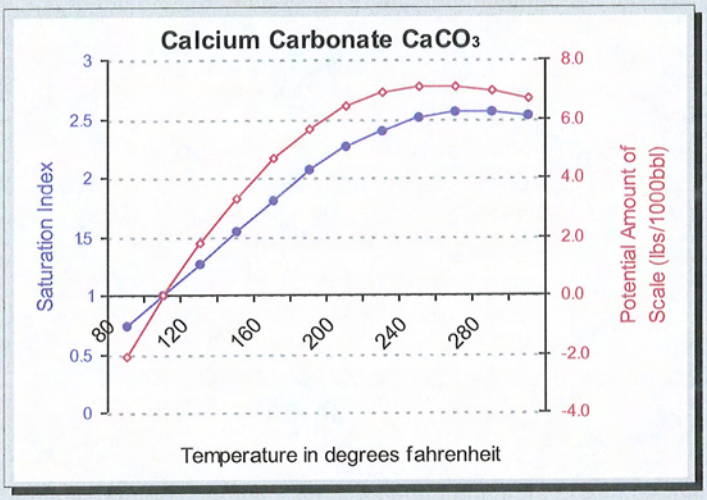
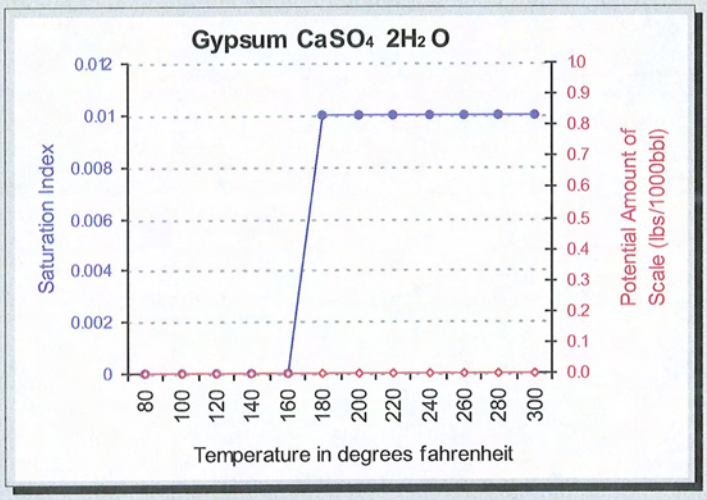
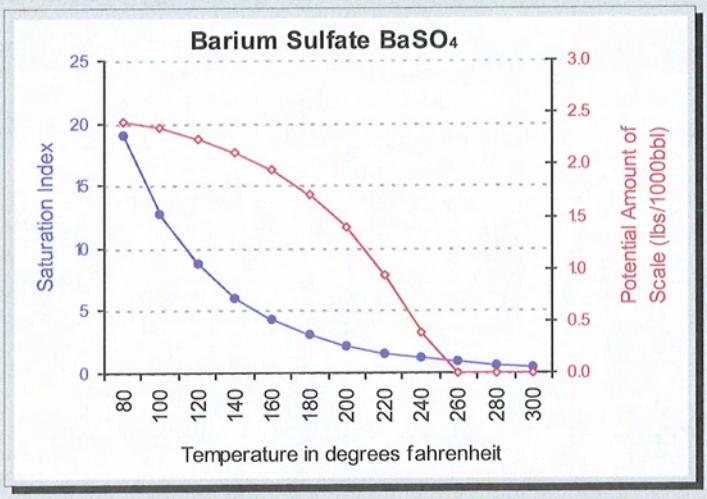
Scale Prediction Graphs

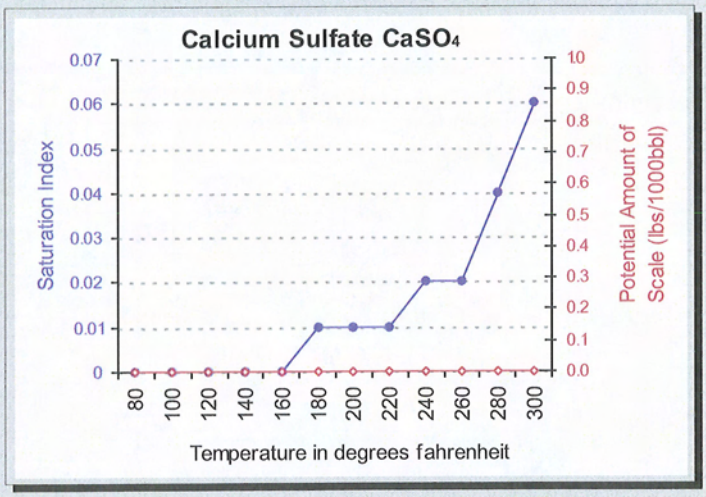
Well Name: **J. ROBERTSON 1-1B1**

Sample ID: **WA-42462**









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Water Analysis Report

Production Company: **EL PASO E & P 12480 ALTAMONT UT**
Well Name: **LEBEAU 1-34A1**
Sample Point: **Treater**
Sample Date: **6 /14/2010**
Sales Rep: **Stan Hoopes**
Lab Tech: **John Keel**

Sample ID: **WA-42468**

Sample Specifics

Test Date:	6/15/2010
Temperature (°F):	150
Sample Pressure (psig):	60
Specific Gravity (g/cm³):	1.0050
pH:	7.9
Turbidity (NTU):	-
Calculated T.D.S. (mg/L)	8037
Molar Conductivity (µS/cm):	12177
Resitivity (Mohm):	0.8212

Analysis @ Properties in Sample Specifics

Cations	*mg/L*	*Anions*	*mg/L*
Calcium (Ca):	26.00	Chloride (Cl):	4000.00
Magnesium (Mg):	3.00	Sulfate (SO_4):	54.00
Barium (Ba):	3.40	Dissolved CO_2:	19.80
Strontium (Sr):	-	Bicarbonate (HCO_3):	988.20
Sodium (Na):	2938.00	Carbonate (CO_3):	-
Potassium (K):	-	H_2S:	1.00
Iron (Fe):	3.20	Phosphate (PO_4):	-
Manganese (Mn):	0.14	Silica (SiO_2):	-
Lithium (Li):	-	Fluoride (F):	-
Aluminum (Al):	-	Nitrate (NO_3):	-
Ammonia NH_3:	-	Lead (Pb):	-
		Zinc (Zn):	-
		Bromine (Br):	-
		Boron (B):	-

Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl

Test Conditions		Calcium Carbonate $CaCO_3$		Gypsum $CaSO_4 \cdot 2H_2O$		Calcium Sulfate $CaSO_4$		Strontium Sulfate $SrSO_4$		Barium Sulfate $BaSO_4$		Calculated CO_2
Temp °F	Gauge Press. psi	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	psi
150	*60*	*4.40*	*14.37*	*0.00*	*-1875.30*	*0.00*	*-1794.20*	-	-	*1.94*	*2.73*	*0.32*
80	0	1.96	5.52	0.00	-12.23	0.00	-2620.90	-	-	7.40	4.96	0.15
100	0	2.65	8.50	0.00	-7.98	0.00	-2452.70	-	-	4.93	4.56	0.19
120	0	3.35	11.03	0.00	-4.80	0.00	-2214.10	-	-	3.35	3.99	0.21
140	0	4.06	13.33	0.00	-2.46	0.00	-1937.70	-	-	2.32	3.22	0.23
160	0	4.73	15.30	0.00	-0.86	0.00	-1651.00	-	-	1.63	2.17	0.26
180	0	5.30	16.78	0.00	0.09	0.00	-1374.10	-	-	1.17	0.79	0.29
200	0	5.74	17.68	0.00	0.56	0.00	-1120.20	-	-	0.85	-1.00	0.29
220	2.51	5.95	18.07	0.00	0.72	0.00	-905.98	-	-	0.61	-3.46	0.30
240	10.3	6.04	17.85	0.00	0.72	0.01	-713.54	-	-	0.45	-6.44	0.30
260	20.76	5.97	17.16	0.00	0.64	0.01	-552.63	-	-	0.33	-10.15	0.31
280	34.54	5.75	16.08	0.00	0.51	0.01	-420.77	-	-	0.25	-14.74	0.31
300	52.34	5.43	14.72	0.00	0.35	0.02	-314.45	-	-	0.19	-20.35	0.32

Conclusions:

Calcium Carbonate scale is indicated at all temps from 80°F to 300°F
Gypsum Scaling Index is negative from 80°F to 300°F
Calcium Sulfate Scaling Index is negative from 80°F to 300°F
Strontium Sulfate scaling was not evaluated
Barium Sulfate NO CONCLUSION

Notes:

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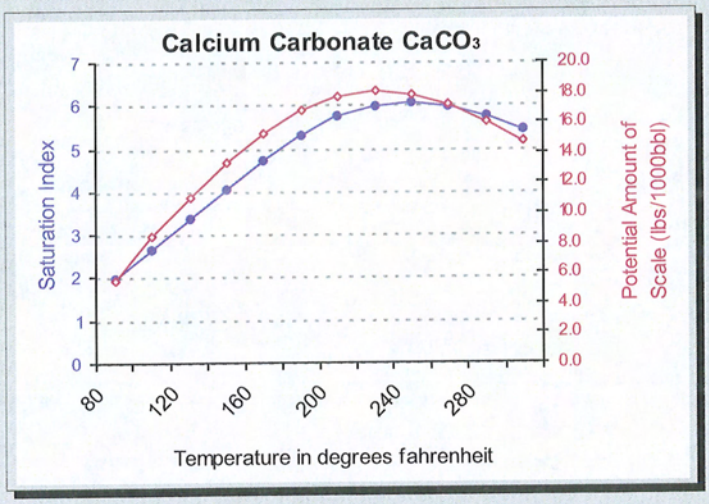
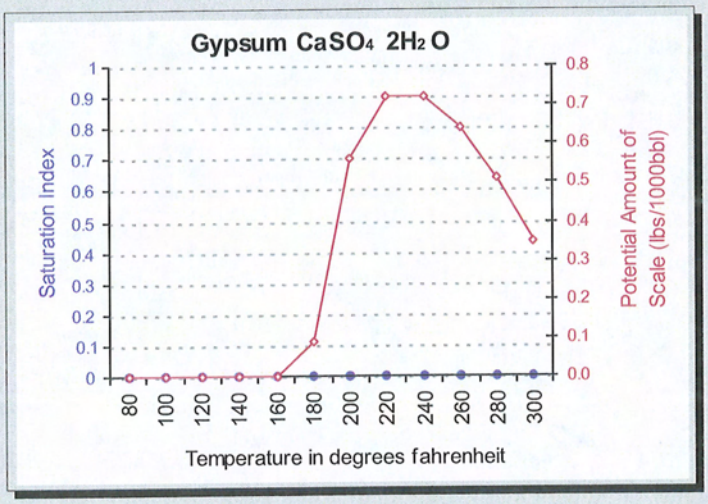
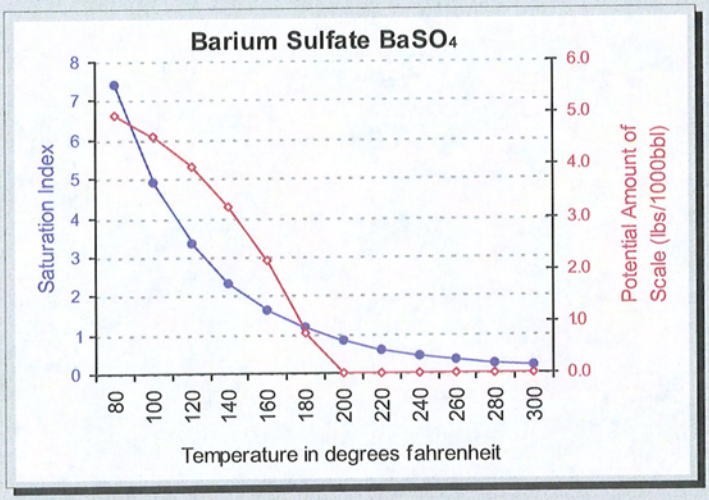
Scale Prediction Graphs

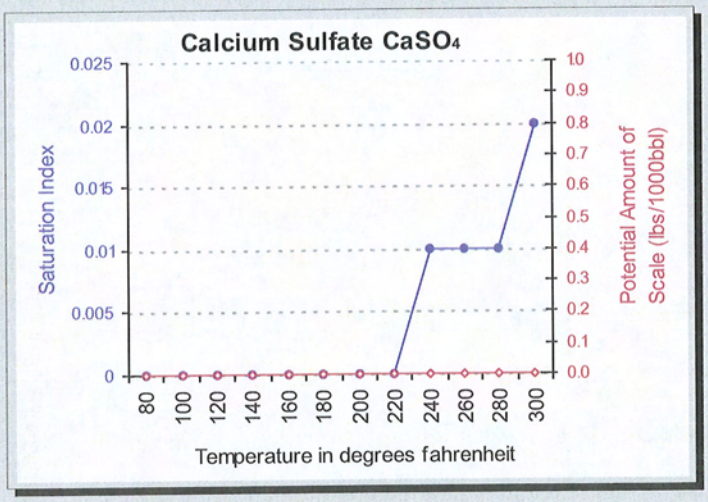
Well Name: **LEBEAU 1-34A1**

Sample ID: **WA-42468**









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Water Analysis Report

Production Company: **EL PASO E & P 12480 ALTAMONT UT**
Well Name: **SLB 1-35A1**
Sample Point: **Treater**
Sample Date: **6 /14/2010**
Sales Rep: **Stan Hoopes**
Lab Tech: **John Keel**

Sample ID: **WA-42495**

Sample Specifics

Test Date:	6/18/2010
Temperature (°F):	150
Sample Pressure (psig):	60
Specific Gravity (g/cm³):	1.0050
pH:	7.6
Turbidity (NTU):	-
Calculated T.D.S. (mg/L)	9380
Molar Conductivity (µS/cm):	14212
Resitivity (Mohm):	0.7036

Analysis @ Properties in Sample Specifics

Cations	mg/L	Anions	mg/L
Calcium (Ca):	114.00	Chloride (Cl):	5000.00
Magnesium (Mg):	19.00	Sulfate (SO_4):	21.00
Barium (Ba):	2.50	Dissolved CO_2:	11.88
Strontium (Sr):	-	Bicarbonate (HCO_3):	829.60
Sodium (Na):	3378.00	Carbonate (CO_3):	-
Potassium (K):	-	H_2S:	1.00
Iron (Fe):	3.00	Phosphate (PO_4):	-
Manganese (Mn):	0.14	Silica (SiO_2):	-
Lithium (Li):	-	Fluoride (F):	-
Aluminum (Al):	-	Nitrate (NO_3):	-
Ammonia NH_3:	-	Lead (Pb):	-
		Zinc (Zn):	-
		Bromine (Br):	-
		Boron (B):	-

Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl

Test Conditions		Calcium Carbonate $CaCO_3$		Gypsum $CaSO_4 \cdot 2H_2O$		Calcium Sulfate $CaSO_4$		Strontium Sulfate $SrSO_4$		Barium Sulfate $BaSO_4$		Calculated CO_2
Temp °F	Gauge Press. psi	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	psi
150	*60*	*8.09*	*8.00*	*0.00*	*-1894.50*	*0.00*	*-1818.10*	-	-	*0.45*	*-4.27*	*0.53*
80	0	3.43	3.83	0.00	-3.79	0.00	-2672.80	-	-	1.75	1.72	0.25
100	0	4.70	5.14	0.00	-0.94	0.00	-2500.10	-	-	1.16	0.54	0.31
120	0	6.01	6.30	0.00	1.19	0.00	-2253.40	-	-	0.79	-1.03	0.34
140	0	7.40	7.44	0.00	2.90	0.00	-1966.90	-	-	0.54	-3.07	0.39
160	0	8.77	8.53	0.00	4.27	0.00	-1669.60	-	-	0.38	-5.61	0.44
180	0	10.03	9.51	0.00	5.34	0.00	-1382.50	-	-	0.27	-8.73	0.48
200	0	11.10	10.33	0.00	6.12	0.00	-1119.60	-	-	0.20	-12.47	0.49
220	2.51	11.80	10.99	0.00	6.64	0.01	-898.25	-	-	0.14	-17.19	0.49
240	10.3	12.28	11.30	0.00	6.82	0.01	-698.77	-	-	0.10	-22.48	0.50
260	20.76	12.44	11.30	0.00	6.74	0.01	-531.83	-	-	0.08	-28.63	0.51
280	34.54	12.28	10.98	0.00	6.44	0.02	-394.91	-	-	0.06	-35.74	0.52
300	52.34	11.87	10.41	0.00	5.99	0.04	-284.74	-	-	0.04	-43.94	0.53

Conclusions:

Calcium Carbonate scale is indicated at all temps from 80°F to 300°F
Gypsum Scaling Index is negative from 80°F to 300°F
Calcium Sulfate Scaling Index is negative from 80°F to 300°F
Strontium Sulfate scaling was not evaluated
Barium Sulfate NO CONCLUSION

Notes:

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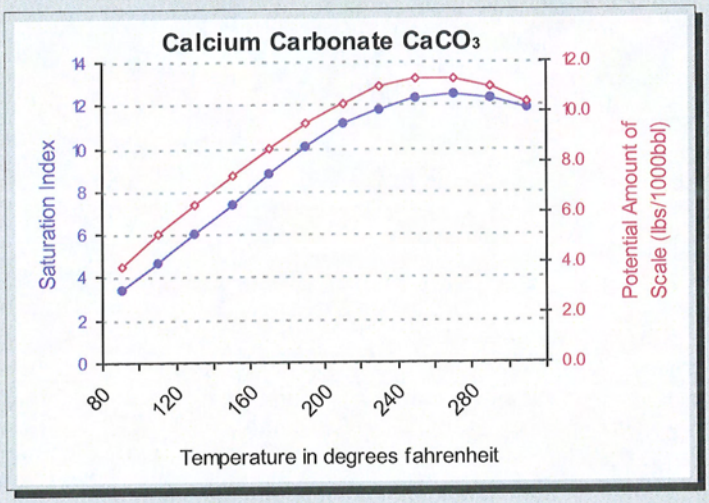
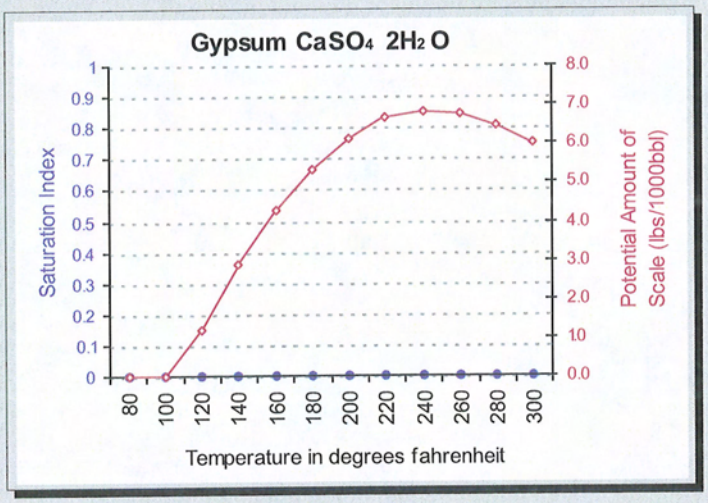
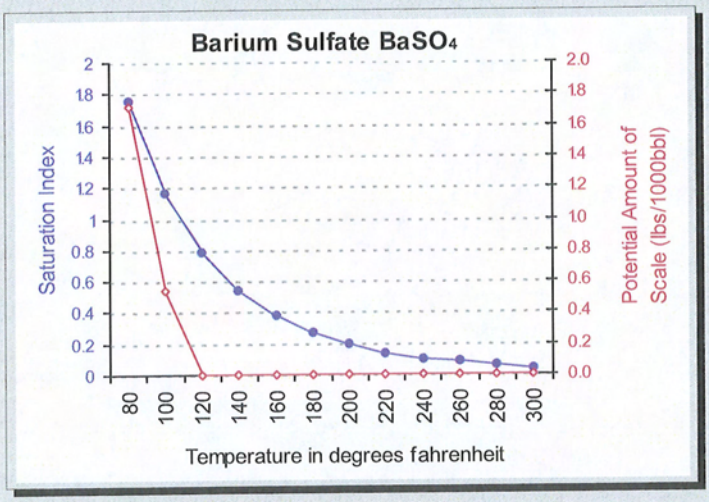
Scale Prediction Graphs

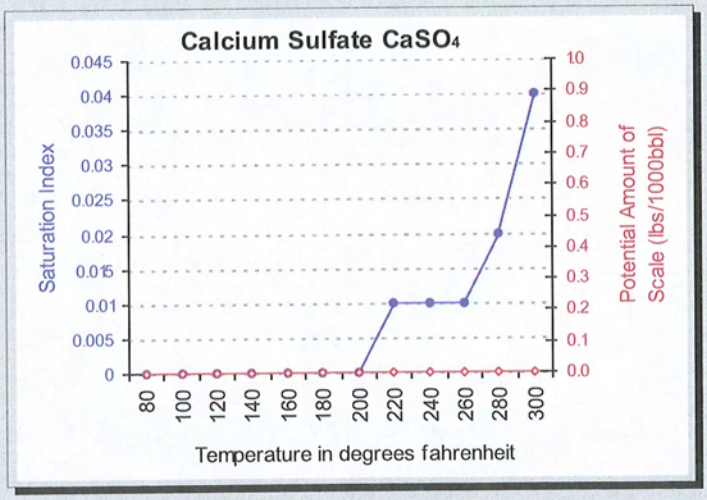
Well Name: **SLB 1-35A1**

Sample ID: **WA-42495**









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Water Analysis Report

Production Company: **EL PASO E & P 12480 ALTAMONT UT**
Well Name: **SPROUSE 2-18 B1**
Sample Point: **Separator**
Sample Date: **5 /20/2010**
Sales Rep: **Stan Hoopes**
Lab Tech: **John Keel**

Sample ID: **WA-41449**

Sample Specifics

Test Date:	5/25/2010
Temperature (°F):	
Sample Pressure (psig):	
Specific Gravity (g/cm³):	
pH:	7.6
Turbidity (NTU):	-
Calculated T.D.S. (mg/L)	6633
Molar Conductivity (µS/cm):	10050
Resitivity (Mohm):	0.9950

Analysis @ Properties in Sample Specifics

Cations	mg/L	Anions	mg/L
Calcium (Ca):	40.00	Chloride (Cl):	4000.00
Magnesium (Mg):	3.90	Sulfate (SO_4):	31.00
Barium (Ba):	2.00	Dissolved CO_2:	-
Strontium (Sr):	-	Bicarbonate (HCO_3):	-
Sodium (Na):	2555.00	Carbonate (CO_3):	-
Potassium (K):	-	H_2S:	1.00
Iron (Fe):	0.16	Phosphate (PO_4):	-
Manganese (Mn):	0.15	Silica (SiO_2):	-
Lithium (Li):	-	Fluoride (F):	-
Aluminum (Al):	-	Nitrate (NO_3):	-
Ammonia NH_3:	-	Lead (Pb):	-
		Zinc (Zn):	-
		Bromine (Br):	-
		Boron (B):	-

Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl

Test Conditions		Calcium Carbonate $CaCO_3$		Gypsum $CaSO_4 \cdot 2H_2O$		Calcium Sulfate $CaSO_4$		Strontium Sulfate $SrSO_4$		Barium Sulfate $BaSO_4$		Calculated CO_2
Temp °F	Gauge Press. psi	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	psi
		0.00	*-6.39*	*0.00*	*-1674.50*	*0.00*	*-1810.90*	-	-	*21.52*	*3.23*	*0.00*
80	0	0.00	-2.91	0.00	-15.09	0.00	-2345.40	-	-	3.08	2.26	0.00
100	0	0.00	-2.50	0.00	-12.08	0.00	-2197.80	-	-	2.03	1.68	0.00
120	0	0.00	-2.19	0.00	-9.79	0.00	-1983.90	-	-	1.37	0.89	0.00
140	0	0.00	-1.94	0.00	-8.03	0.00	-1733.60	-	-	0.94	-0.19	0.00
160	0	0.00	-1.74	0.00	-6.66	0.00	-1472.40	-	-	0.66	-1.62	0.00
180	0	0.00	-1.59	0.00	-5.60	0.00	-1219.60	-	-	0.47	-3.46	0.00
200	0	0.00	-1.46	0.00	-4.76	0.00	-987.63	-	-	0.34	-5.80	0.00
220	2.51	0.00	-1.39	0.00	-4.17	0.01	-791.63	-	-	0.24	-8.88	0.00
240	10.3	0.00	-1.31	0.00	-3.67	0.01	-616.13	-	-	0.18	-12.49	0.00
260	20.76	0.00	-1.26	0.00	-3.28	0.02	-469.79	-	-	0.13	-16.81	0.00
280	34.54	0.00	-1.21	0.00	-2.98	0.03	-350.37	-	-	0.10	-21.92	0.00
300	52.34	0.00	-1.19	0.00	-2.78	0.04	-254.70	-	-	0.08	-27.90	0.00

Conclusions:

Calcium Carbonate Scaling Index is negative from 80°F to 300°F
Gypsum Scaling Index is negative from 80°F to 300°F
Calcium Sulfate Scaling Index is negative from 80°F to 300°F
Strontium Sulfate scaling was not evaluated
Barium Sulfate NO CONCLUSION

Notes:

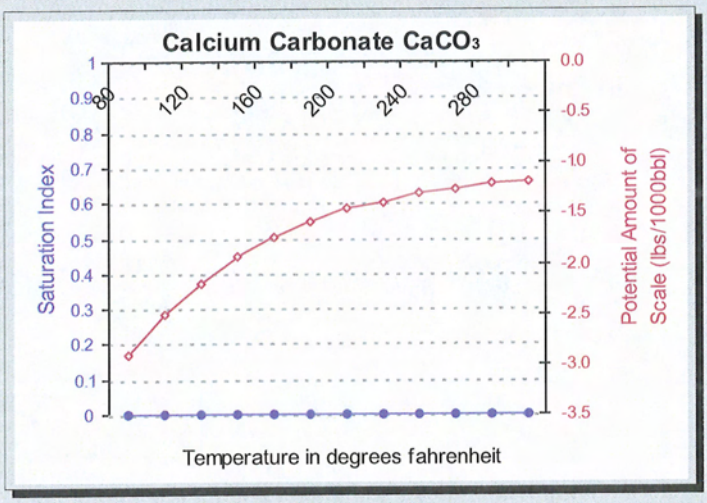
Multi-Chem Group, LLC
Multi-Chem Analytical Laboratory
1553 East Highway 40
Vernal, UT 84078

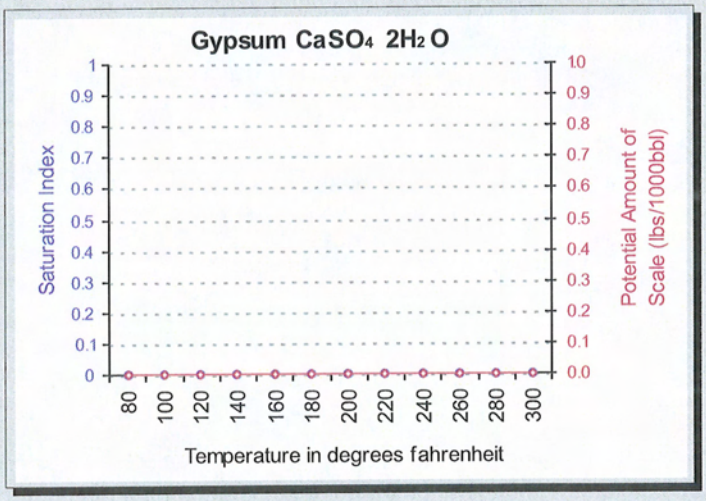
multi-chem®

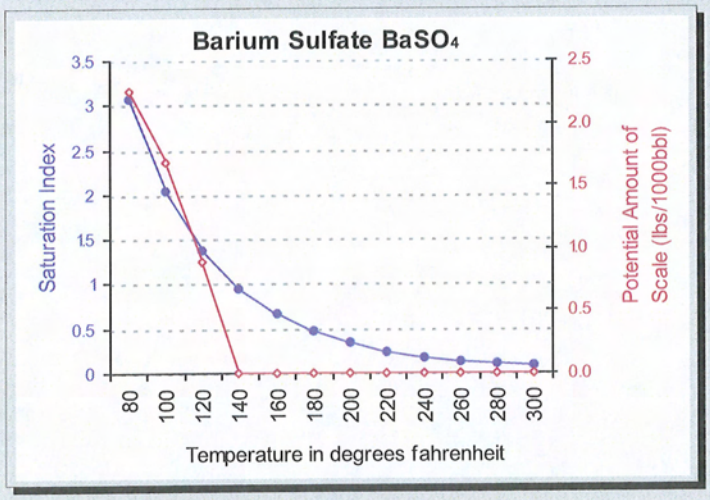
Scale Prediction Graphs

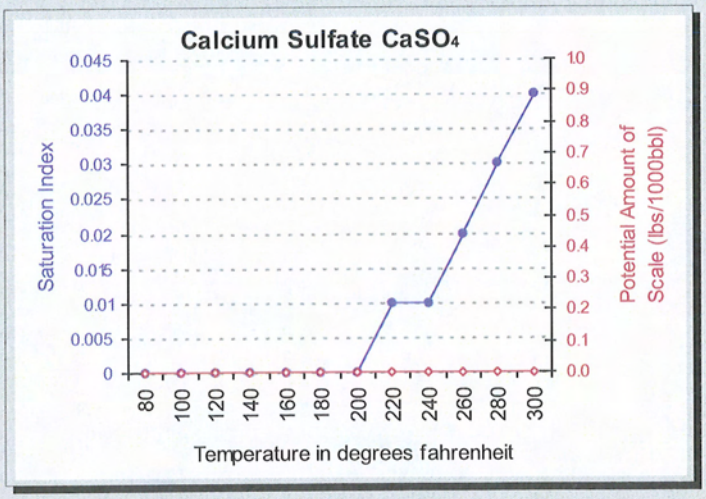
Well Name: **SPROUSE 2-18 B1**

Sample ID: **WA-41449**









Analytical Laboratory Report for:

EL PASO PRODUCTION

BJ Chemical Services
Account Representative:
Mecham, Kelly

Production Water Analysis

Listed below please find water analysis report from: ALTAMONT FIELD, Lawson 1-21A1

Lab Test No: 2010405938 Sample Date: 08/25/2010
Specific Gravity: 1.018

TDS: 26360
pH: 7.40

Cations:	mg/L	as:
Calcium	270	(Ca^{++})
Magnesium	95.70	(Mg^{++})
Sodium	8710	(Na^{+})
Iron	0.94	(Fe^{++})
Potassium	159.0	(K^{+})
Barium	31.90	(Ba^{++})
Strontium	25.40	(Sr^{++})
Manganese	0.58	(Mn^{++})
Anions:	**mg/L**	**as:**
Bicarbonate	6100	(HCO_3^{-})
Sulfate	266	($SO_4^{=}$)
Chloride	10700	(Cl^{-})
Gases:		
Carbon Dioxide	200	(CO_2)
Hydrogen Sulfide	4	(H_2S)

EL PASO PRODUCTION **Lab Test No: 2010405938**

DownHole SAT™ Scale Prediction
@ 160 deg. F

BJ Chemical Services

Mineral Scale	Saturation Index	Momentary Excess (lbs/1000 bbls)
Calcite (CaCO3)	36.35	51.50
Strontianite (SrCO3)	7.37	32.82
Anhydrite (CaSO4)	0.02	-2070.55
Gypsum (CaSO4*2H2O)	0.02	-2298.51
Barite (BaSO4)	30.39	52.22
Celestite (SrSO4)	0.07	-340.31
Siderite (FeCO3)	789.10	1.77
Halite (NaCl)	0.00	-583478.88
Iron sulfide (FeS)	7.94	0.28

Interpretation of DHSat Results:
The Saturation Index is calculated for each mineral species independently and is a measure of the degree of supersaturation (driving force for precipitation) under the conditions modeled. This value ranges from 0 to infinity with 1.0 representing a condition of equilibrium where scale will neither dissolve nor precipitate. Values less than 1.0 are undersaturated and values greater than 1.0 are supersaturated. The Momentary excess is a measure of how much scale would have to precipitate to bring the system back to a non-scaling condition. This value ranges from negative (dissolving) to positive (precipitating) values. The Momentary Excess represents the amount of scale possible while the Saturation Level represents the probability that scale will form.

Analytical Laboratory Report for:

EL PASO PRODUCTION

BJ Chemical Services
Account Representative:
Mecham, Kelly

Production Water Analysis

Listed below please find water analysis report from: ALTAMONT FIELD, Lawson 1-21A1

Lab Test No: 2010405936 Sample Date: 08/23/2010
Specific Gravity: 1.021

TDS: 30580
pH: 7.40

Cations:	mg/L	as:
Calcium	589	(Ca^{++})
Magnesium	267	(Mg^{++})
Sodium	11100	(Na^{+})
Iron	12.50	(Fe^{++})
Potassium	195.0	(K^{+})
Barium	56.70	(Ba^{++})
Strontium	42.60	(Sr^{++})
Manganese	1.12	(Mn^{++})
Anions:	**mg/L**	**as:**
Bicarbonate	5390	(HCO_3^{-})
Sulfate	426	($SO_4^{=}$)
Chloride	12500	(Cl^{-})
Gases:		
Carbon Dioxide	300	(CO_2)
Hydrogen Sulfide	3	(H_2S)

Lab Comments:
Sample B

EL PASO PRODUCTION **Lab Test No: 2010405936**

DownHole SAT™ Scale Prediction
@ 160 deg. F

Chemical Services

Mineral Scale	Saturation Index	Momentary Excess (lbs/1000 bbls)
Calcite (CaCO3)	66.66	42.98
Strontianite (SrCO3)	8.22	44.10
Anhydrite (CaSO4)	0.06	-1947.46
Gypsum (CaSO4*2H2O)	0.06	-2167.61
Barite (BaSO4)	61.68	94.55
Celestite (SrSO4)	0.14	-320.75
Siderite (FeCO3)	7143.16	23.56
Halite (NaCl)	0.00	-587991.56
Iron sulfide (FeS)	61.66	3.56

Interpretation of DHSat Results:
The Saturation Index is calculated for each mineral species independently and is a measure of the degree of supersaturation (driving force for precipitation) under the conditions modeled. This value ranges from 0 to infinity with 1.0 representing a condition of equilibrium where scale will neither dissolve nor precipitate. Values less than 1.0 are undersaturated and values greater than 1.0 are supersaturated. The Momentary excess is a measure of how much scale would have to precipitate to bring the system back to a non-scaling condition. This value ranges from negative (dissolving) to positive (precipitating) values. The Momentary Excess represents the amount of scale possible while the Saturation Level represents the probability that scale will form.

Analytical Laboratory Report for:

EL PASO PRODUCTION

BJ Chemical Services
Account Representative:
Mecham, Kelly

Production Water Analysis

Listed below please find water analysis report from: ALTAMONT FIELD, Lawson 1-21A1

Lab Test No: 2010405937 Sample Date: 08/24/2010
Specific Gravity: 1.019

TDS: 27685
pH: 7.40

Cations:	mg/L	as:
Calcium	330	(Ca^{++})
Magnesium	129	(Mg^{++})
Sodium	8850	(Na^{+})
Iron	0.87	(Fe^{++})
Potassium	156.0	(K^{+})
Barium	34.30	(Ba^{++})
Strontium	29.80	(Sr^{++})
Manganese	0.68	(Mn^{++})
Anions:	**mg/L**	**as:**
Bicarbonate	6100	(HCO_3^{-})
Sulfate	254	($SO_4^{=}$)
Chloride	11800	(Cl^{-})
Gases:		
Carbon Dioxide	250	(CO_2)
Hydrogen Sulfide	3	(H_2S)

EL PASO PRODUCTION **Lab Test No: 2010405937**

DownHole SAT™ Scale Prediction
@ 160 deg. F

BJ Chemical Services

Mineral Scale	Saturation Index	Momentary Excess (lbs/1000 bbls)
Calcite (CaCO3)	43.41	51.35
Strontianite (SrCO3)	8.11	38.09
Anhydrite (CaSO4)	0.02	-2091.09
Gypsum (CaSO4*2H2O)	0.02	-2323.49
Barite (BaSO4)	28.81	55.99
Celestite (SrSO4)	0.08	-358.85
Siderite (FeCO3)	691.13	1.64
Halite (NaCl)	0.00	-585137.00
Iron sulfide (FeS)	5.19	0.23

Interpretation of DHSat Results:
The Saturation Index is calculated for each mineral species independently and is a measure of the degree of supersaturation (driving force for precipitation) under the conditions modeled. This value ranges from 0 to infinity with 1.0 representing a condition of equilibrium where scale will neither dissolve nor precipitate. Values less than 1.0 are undersaturated and values greater than 1.0 are supersaturated. The Momentary excess is a measure of how much scale would have to precipitate to bring the system back to a non-scaling condition. This value ranges from negative (dissolving) to positive (precipitating) values. The Momentary Excess represents the amount of scale possible while the Saturation Level represents the probability that scale will form.

Analytical Laboratory Report for:

EL PASO PRODUCTION

BJ Chemical Services
Account Representative:
Mecham, Kelly

Production Water Analysis

Listed below please find water analysis report from: ALTAMONT FIELD, Lawson 1-21A1

Lab Test No: 2010404156 Sample Date: 06/03/2010
Specific Gravity: 1.024

TDS: 36022
pH: 6.80

Cations:	mg/L	as:
Calcium	2660	(Ca^{++})
Magnesium	757	(Mg^{++})
Sodium	7800	(Na^{+})
Iron	497.00	(Fe^{++})
Potassium	144.0	(K^{+})
Barium	58.30	(Ba^{++})
Strontium	27.40	(Sr^{++})
Manganese	10.20	(Mn^{++})
Anions:	**mg/L**	**as:**
Bicarbonate	4150	(HCO_3^{-})
Sulfate	118	($SO_4^{=}$)
Chloride	19800	(Cl^{-})
Gases:		
Carbon Dioxide	2300	(CO_2)
Hydrogen Sulfide	3	(H_2S)

EL PASO PRODUCTION **Lab Test No: 2010404156**

DownHole SAT™ Scale Prediction
@ 160 deg. F

BJ Chemical Services

Mineral Scale	Saturation Index	Momentary Excess (lbs/1000 bbls)
Calcite (CaCO3)	49.58	5.57
Strontianite (SrCO3)	0.59	-4.62
Anhydrite (CaSO4)	0.06	-1018.59
Gypsum (CaSO4*2H2O)	0.06	-1129.42
Barite (BaSO4)	9.94	76.15
Celestite (SrSO4)	0.01	-578.19
Siderite (FeCO3)	34439.26	6.58
Halite (NaCl)	0.00	-595059.88
Iron sulfide (FeS)	453.52	3.50

Interpretation of DHSat Results:
The Saturation Index is calculated for each mineral species independently and is a measure of the degree of supersaturation (driving force for precipitation) under the conditions modeled. This value ranges from 0 to infinity with 1.0 representing a condition of equilibrium where scale will neither dissolve nor precipitate. Values less than 1.0 are undersaturated and values greater than 1.0 are supersaturated. The Momentary excess is a measure of how much scale would have to precipitate to bring the system back to a non-scaling condition. This value ranges from negative (dissolving) to positive (precipitating) values. The Momentary Excess represents the amount of scale possible while the Saturation Level represents the probability that scale will form.

Analytical Laboratory Report for:

EL PASO PRODUCTION

BJ Chemical Services
Account Representative:
Mecham, Kelly

Production Water Analysis

Listed below please find water analysis report from: ALTAMONT FIELD, Lawson 1-21A1

Lab Test No: 2010405935 Sample Date: 08/23/2010
Specific Gravity: 1.023

TDS: 33126
pH: 7.40

Cations:	mg/L	as:
Calcium	551	(Ca^{++})
Magnesium	322	(Mg^{++})
Sodium	11600	(Na^{+})
Iron	15.10	(Fe^{++})
Potassium	189.0	(K^{+})
Barium	43.70	(Ba^{++})
Strontium	42.20	(Sr^{++})
Manganese	1.21	(Mn^{++})
Anions:	**mg/L**	**as:**
Bicarbonate	6100	(HCO_3^{-})
Sulfate	662	($SO_4^{=}$)
Chloride	13600	(Cl^{-})
Gases:		
Carbon Dioxide	300	(CO_2)
Hydrogen Sulfide	4	(H_2S)

Lab Comments:
Sample A

EL PASO PRODUCTION Lab Test No: 2010405935

DownHole SAT™ Scale Prediction
@ 160 deg. F

BJ Chemical Services

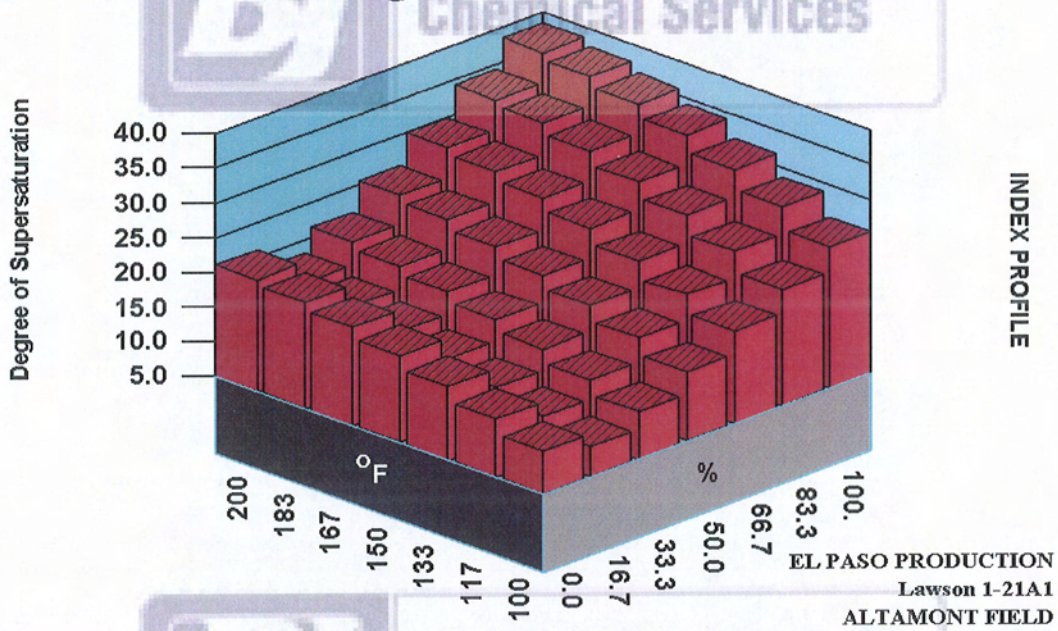
Mineral Scale	Saturation Index	Momentary Excess (lbs/1000 bbls)
Calcite (CaCO3)	65.04	48.89
Strontianite (SrCO3)	9.01	48.13
Anhydrite (CaSO4)	0.08	-1910.97
Gypsum (CaSO4*2H2O)	0.08	-2127.71
Barite (BaSO4)	71.45	73.15
Celestite (SrSO4)	0.21	-245.60
Siderite (FeCO3)	9482.55	28.20
Halite (NaCl)	0.00	-589105.31
Iron sulfide (FeS)	95.06	4.42

Interpretation of DHSat Results:
The Saturation Index is calculated for each mineral species independently and is a measure of the degree of supersaturation (driving force for precipitation) under the conditions modeled. This value ranges from 0 to infinity with 1.0 representing a condition of equilibrium where scale will neither dissolve nor precipitate. Values less than 1.0 are undersaturated and values greater than 1.0 are supersaturated. The Momentary excess is a measure of how much scale would have to precipitate to bring the system back to a non-scaling condition. This value ranges from negative (dissolving) to positive (precipitating) values. The Momentary Excess represents the amount of scale possible while the Saturation Level represents the probability that scale will form.

EL PASO PRODUCTION

LAWSON 1-21A1 SWD
BJCS Sample Mixed with MultiChem Sample
%'s read as X percent of BJCS sample water

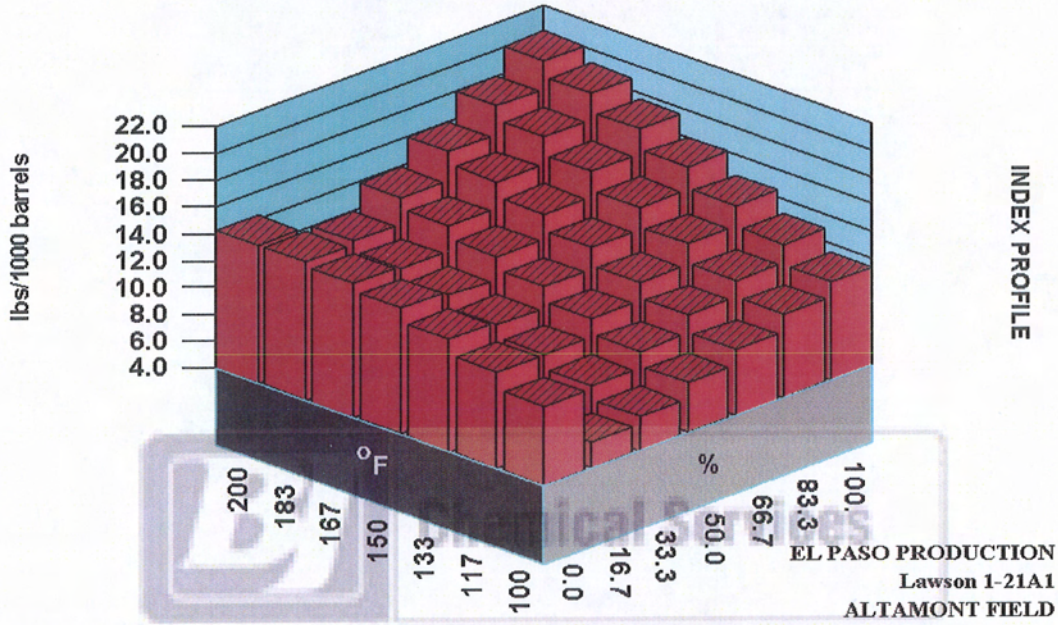
$CaCO_3$ Saturation Level



EL PASO PRODUCTION
Lawson 1-21A1
ALTAMONT FIELD
2010405938

UNTREATED

$CaCO_3$ Momentary Excess



EL PASO PRODUCTION
Lawson 1-21A1
ALTAMONT FIELD
2010405938

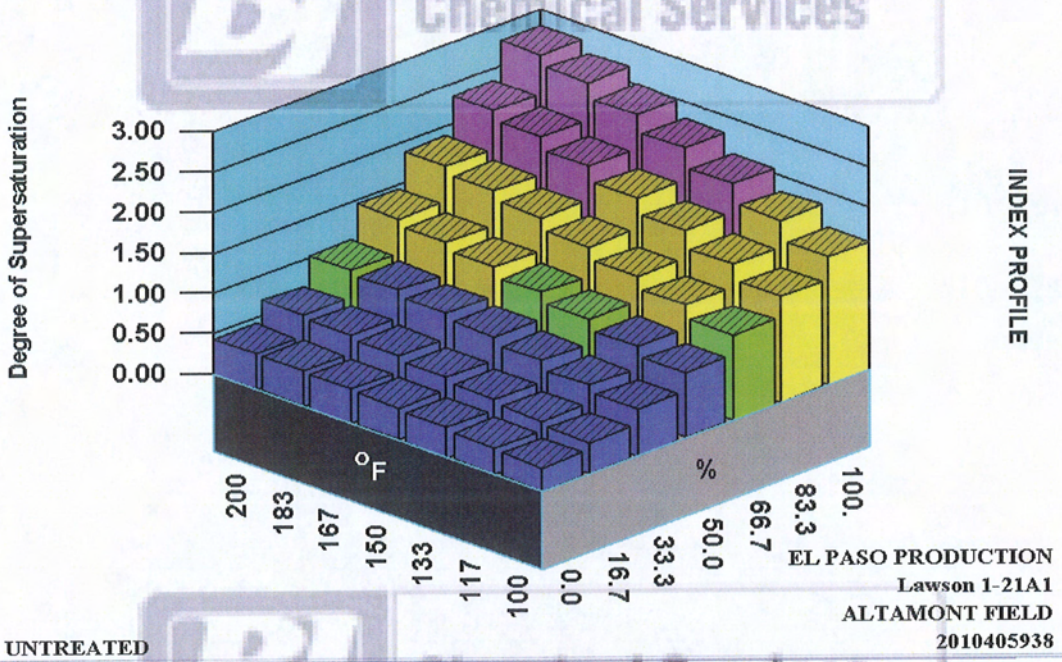
UNTREATED

EL PASO PRODUCTION

LAWSON 1-21A1 SWD

BJCS Sample Mixed with MultiChem Sample

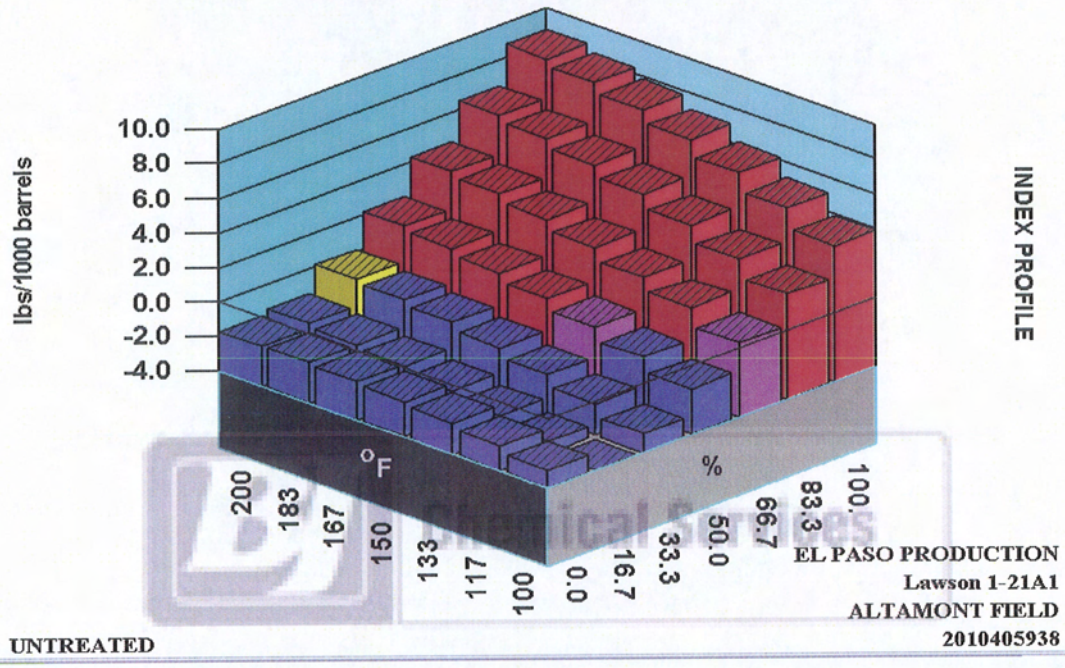
$BaCO_3$ Saturation Level



EL PASO PRODUCTION
Lawson 1-21A1
ALTAMONT FIELD
2010405938

UNTREATED

$BaCO_3$ Momentary Excess



EL PASO PRODUCTION
Lawson 1-21A1
ALTAMONT FIELD
2010405938

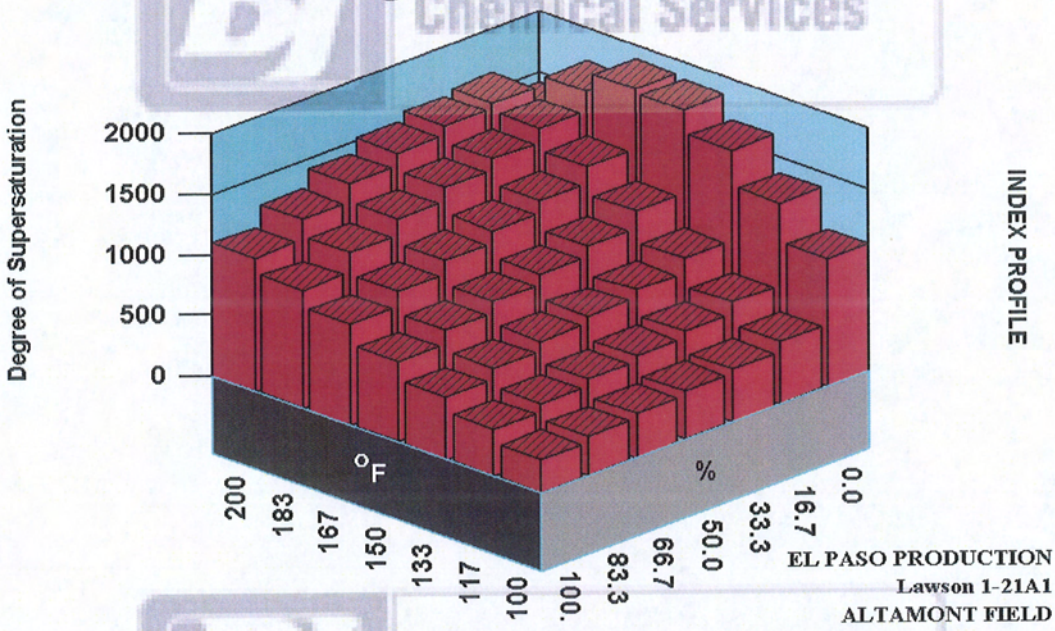
UNTREATED

EL PASO PRODUCTION

LAWSON 1-21A1 SWD

BJCS Sample Mixed with MultiChem Sample

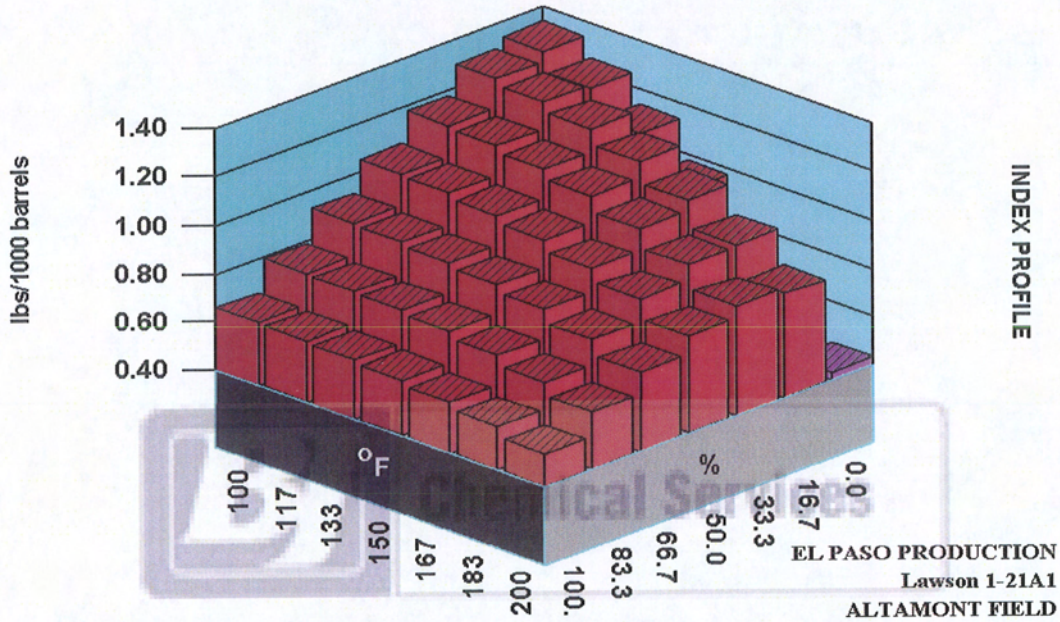
$FeCO_3$ Saturation Level



EL PASO PRODUCTION
Lawson 1-21A1
ALTAMONT FIELD
2010405938

UNTREATED

$FeCO_3$ Momentary Excess



EL PASO PRODUCTION
Lawson 1-21A1
ALTAMONT FIELD
2010405938

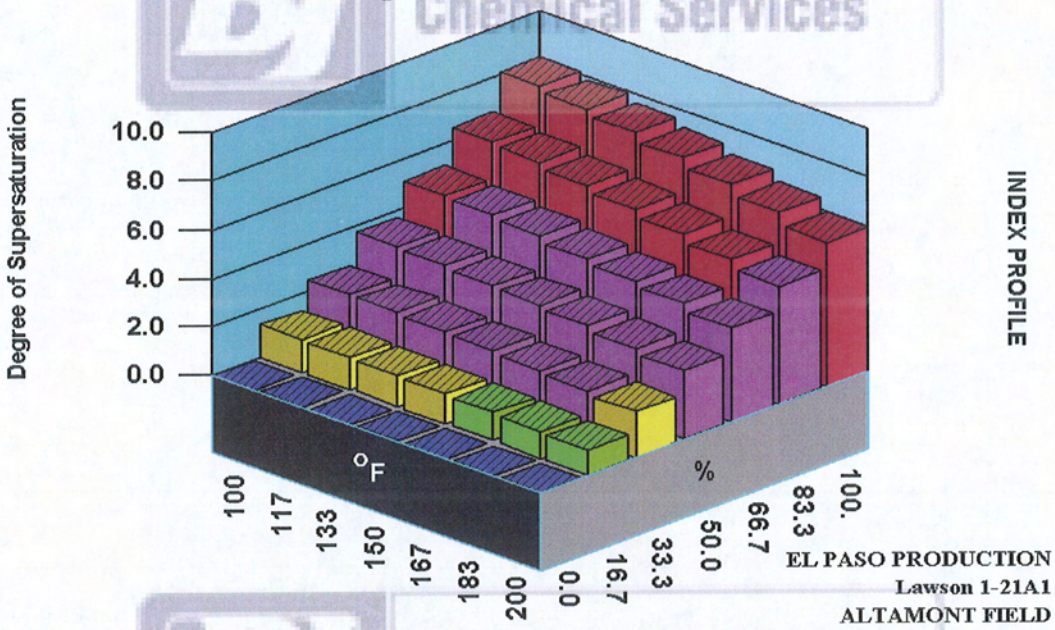
UNTREATED

EL PASO PRODUCTION

LAWSON 1-21A1 SWD

BJCS Sample Mixed with MultiChem Sample

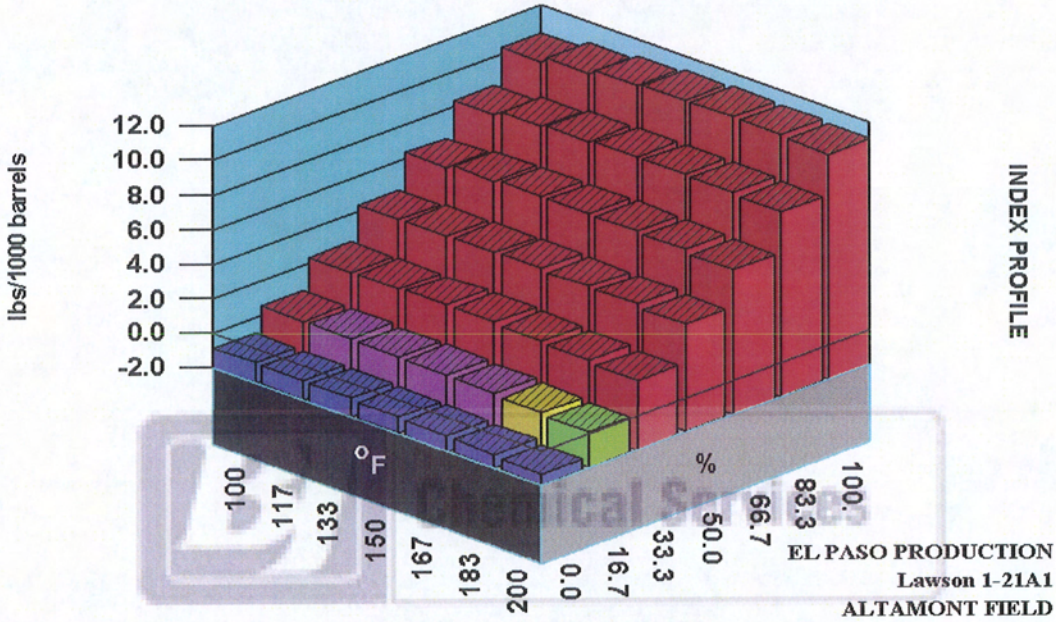
$SrCO_3$ Saturation Level



EL PASO PRODUCTION
Lawson 1-21A1
ALTAMONT FIELD
2010405938

UNTREATED

$SrCO_3$ Momentary Excess



EL PASO PRODUCTION
Lawson 1-21A1
ALTAMONT FIELD
2010405938

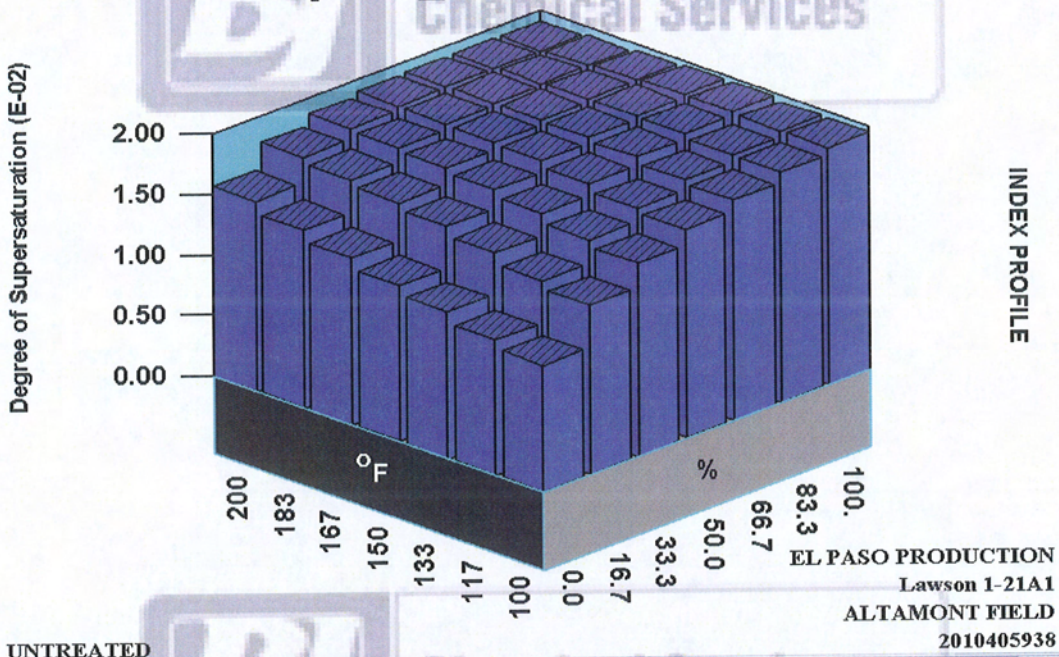
UNTREATED

EL PASO PRODUCTION

LAWSON 1-21A1 SWD

BJCS Sample Mixed with MultiChem Sample

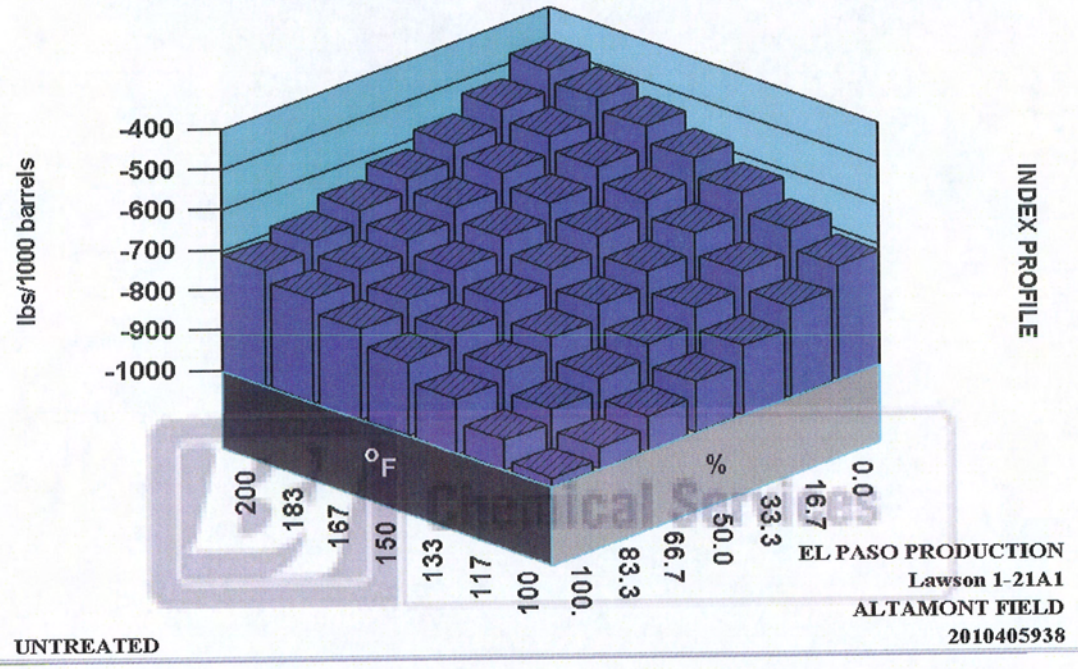
$CaSO_4*2H_2O$ Saturation Level



EL PASO PRODUCTION
Lawson 1-21A1
ALTAMONT FIELD
2010405938

UNTREATED

$CaSO_4*2H_2O$ Momentary Excess



EL PASO PRODUCTION
Lawson 1-21A1
ALTAMONT FIELD
2010405938

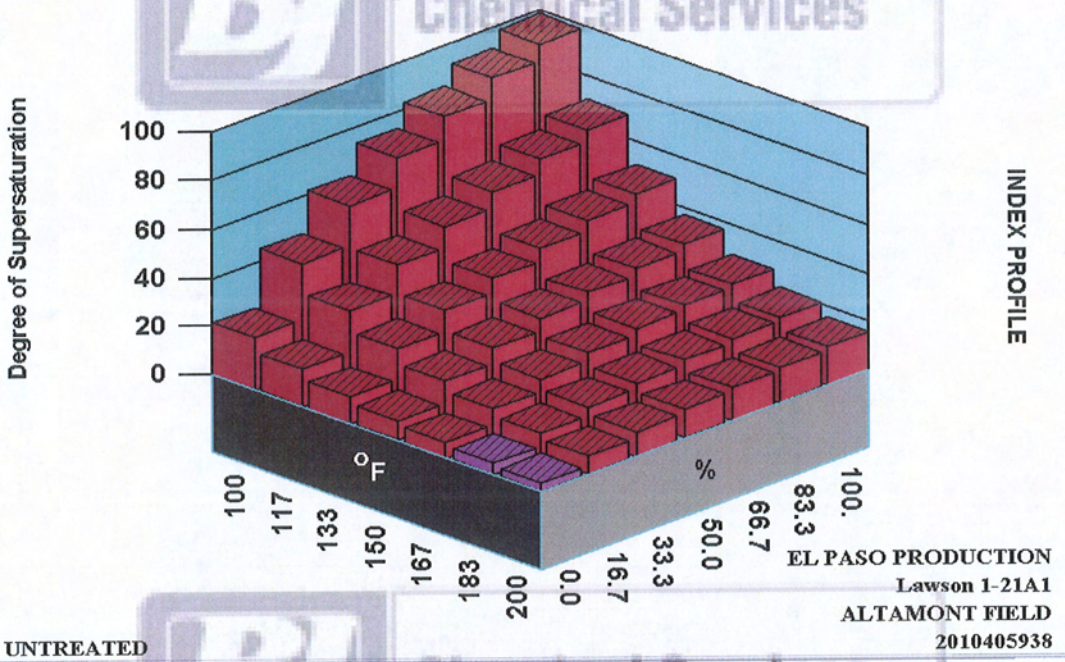
UNTREATED

EL PASO PRODUCTION

LAWSON 1-21A1 SWD

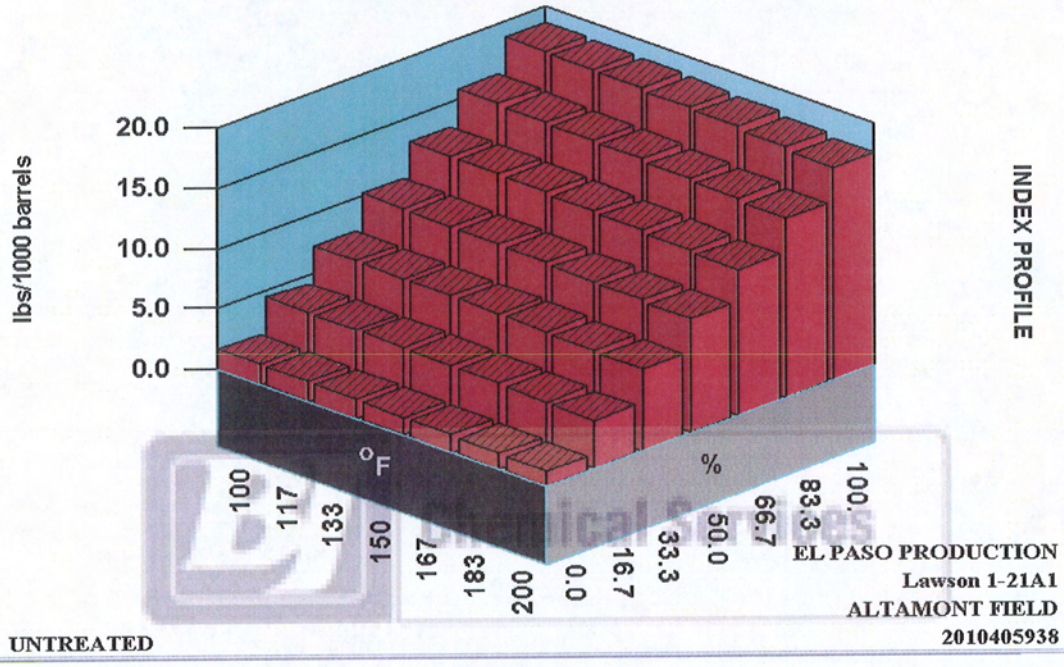
BJCS Sample Mixed with MultiChem Sample

$BaSO_4$ Saturation Level



UNTREATED

$BaSO_4$ Momentary Excess



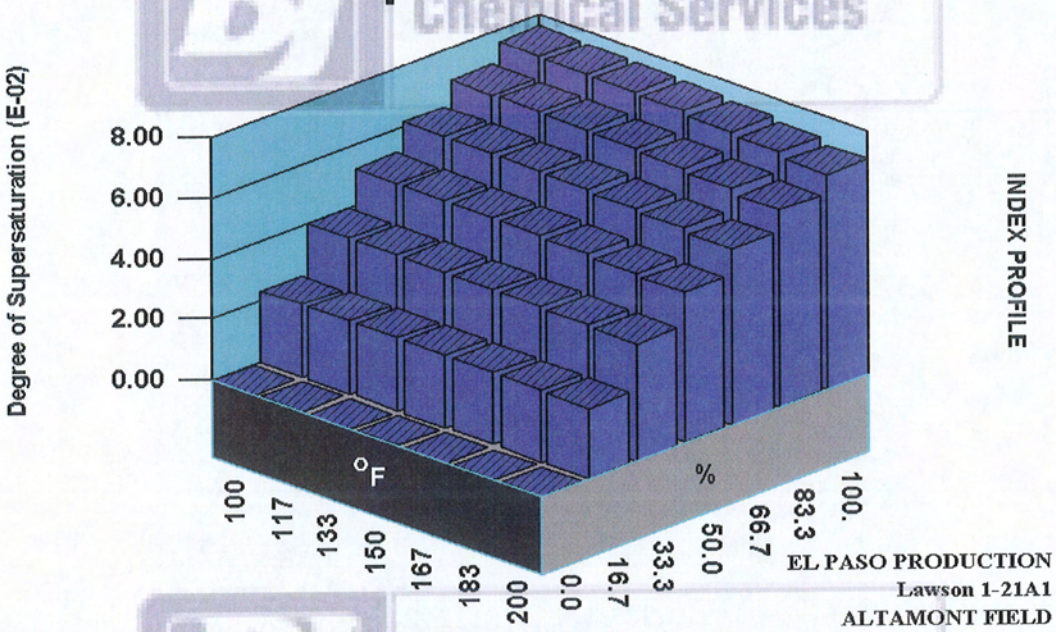
UNTREATED

EL PASO PRODUCTION

LAWSON 1-21A1 SWD

BJCS Sample Mixed with MultiChem Sample

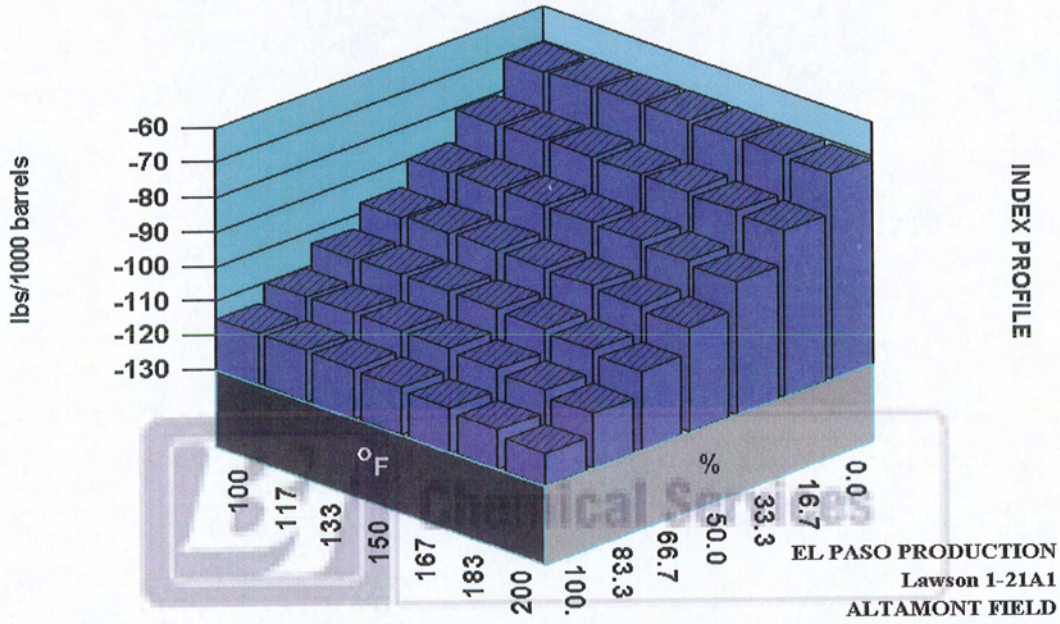
$SrSO_4$ Saturation Level



EL PASO PRODUCTION
Lawson 1-21A1
ALTAMONT FIELD
2010405938

UNTREATED

$SrSO_4$ Momentary Excess



EL PASO PRODUCTION
Lawson 1-21A1
ALTAMONT FIELD
2010405938

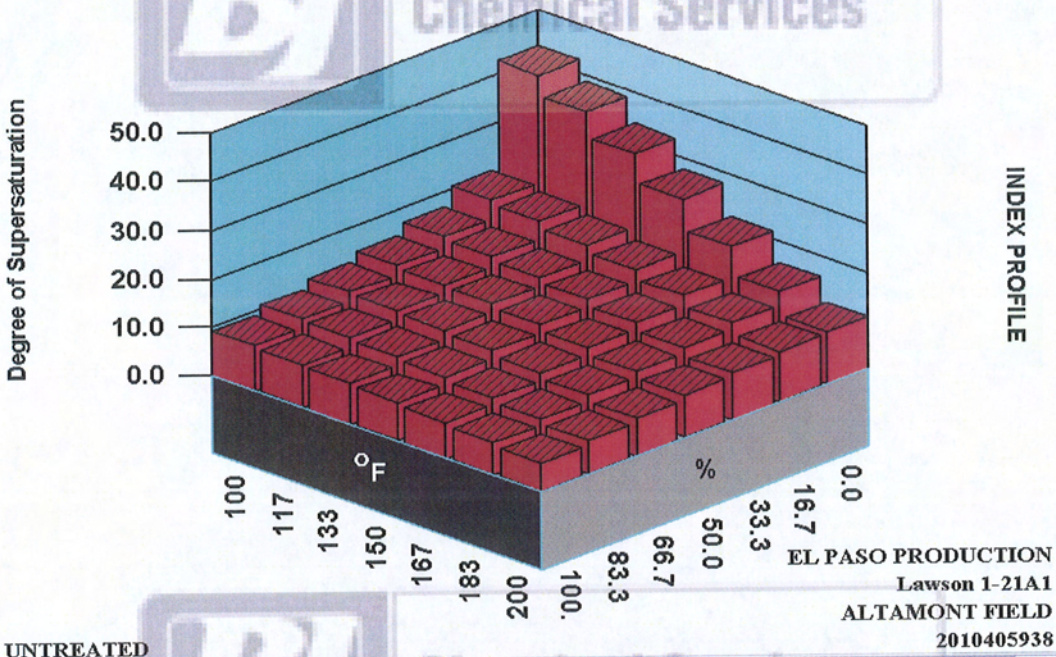
UNTREATED

EL PASO PRODUCTION

LAWSON 1-21A1 SWD

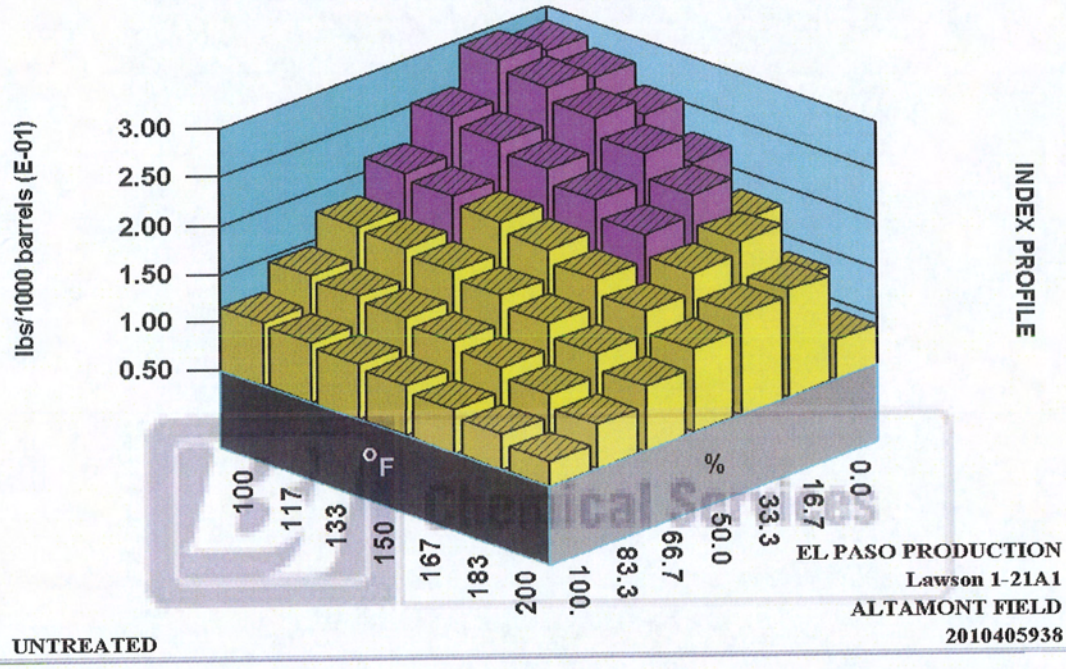
BJCS Sample Mixed with MultiChem Sample

FeS Saturation Level



UNTREATED

FeS Momentary Excess



UNTREATED

DownHole SAT(tm)

BJCS WATER CHEMISTRY INPUT

EL PASO PRODUCTION — Lawson 1-21A1
ALTAMONT FIELD — BJCS - 2010405938

Report Date: 09-29-2010 Sampled: 08-25-2010

CATIONS		ANIONS	
Calcium (as Ca)	270.00	Chloride (as Cl)	10700
Magnesium (as Mg)	96.00	Sulfate (as SO_4)	266.00
Barium (as Ba)	31.90	Bromine (as Br)	0.00
Strontium (as Sr)	25.40	Dissolved CO_2 (as CO_2)	0.0404
Sodium (as Na)	8710	Bicarbonate (as HCO_3)	6100
Potassium (as K)	159.00	Carbonate (as CO_3)	0.00
Lithium (as Mg)	0.00	Silica (as SiO_2)	0.00
Ammonia (as NH_3)	0.00	H_2S (as H_2S)	4.00
Aluminum (as Al)	0.00	Phosphate (as PO_4)	0.00
Iron (as Fe)	0.940	Nitrate (as NO_3)	0.00
Boron (as B)	0.00	Fluoride (as F)	0.00
Manganese (as Mn)	0.580		
Zinc (as Zn)	0.00		
Lead (as Pb)	0.00		

PARAMETERS

pH	7.40
Temperature (^{O}F)	160.00
Density(g/mL)	1.02
Pressure(psia)	14.70
Calculated T.D.S.	26156
Molar Conductivity	29041

BJ Chemical Services
Roosevelt, Utah

DownHole SAT(tm)

BJCS WATER
DEPOSITION POTENTIAL INDICATORS

EL PASO PRODUCTION — Lawson 1-21A1
ALTAMONT FIELD — BJCS - 2010405938

Report Date: 09-29-2010 Sampled: 08-25-2010

SATURATION LEVEL		MOMENTARY EXCESS (Lbs/1000 Barrels)	
Calcite ($CaCO_3$)	37.06	Calcite ($CaCO_3$)	17.81
Aragonite ($CaCO_3$)	30.29	Aragonite ($CaCO_3$)	17.68
Witherite ($BaCO_3$)	2.53	Witherite ($BaCO_3$)	7.92
Strontianite ($SrCO_3$)	7.42	Strontianite ($SrCO_3$)	11.44
Magnesite ($MgCO_3$)	17.60	Magnesite ($MgCO_3$)	14.11
Anhydrite ($CaSO_4$)	0.0190	Anhydrite ($CaSO_4$)	-712.38
Gypsum ($CaSO_4*2H_2O$)	0.0196	Gypsum ($CaSO_4*2H_2O$)	-792.56
Barite ($BaSO_4$)	31.04	Barite ($BaSO_4$)	18.21
Iron hydroxide ($Fe(OH)_3$)	< 0.001	Iron hydroxide ($Fe(OH)_3$)	< 0.001
Strengite ($FePO_4*2H_2O$)	0.00	Strengite ($FePO_4*2H_2O$)	>-0.001
Siderite ($FeCO_3$)	791.46	Siderite ($FeCO_3$)	0.615
Iron sulfide (FeS)	7.93	Iron sulfide (FeS)	0.0975

OPERATING CONDITIONS

Temperature (^oF)	160.00
Time(secs)	1.00

BJ Chemical Services
Roosevelt, Utah

DownHole SAT(tm)

MULTI-CHEM WATER CHEMISTRY INPUT

EL PASO PRODUCTION — Lawson 1-21A1
ALTAMONT FIELD — MC WA-43984

Report Date: 09-29-2010 Sampled: 07-23-2010

CATIONS		ANIONS	
Calcium (as Ca)	51.00	Chloride (as Cl)	4000
Magnesium (as Mg)	7.00	Sulfate (as SO_4)	252.00
Barium (as Ba)	2.90	Bromine (as Br)	0.00
Strontium (as Sr)	0.00	Dissolved CO_2 (as CO_2)	12.56
Sodium (as Na)	3042	Bicarbonate (as HCO_3)	1098
Potassium (as K)	0.00	Carbonate (as CO_3)	0.00
Lithium (as Mg)	0.00	Silica (as SiO_2)	0.00
Ammonia (as NH_3)	0.00	H_2S (as H_2S)	0.500
Aluminum (as Al)	0.00	Phosphate (as PO_4)	0.00
Iron (as Fe)	2.10	Nitrate (as NO_3)	0.00
Boron (as B)	0.00	Fluoride (as F)	0.00
Manganese (as Mn)	0.00		
Zinc (as Zn)	0.00		
Lead (as Pb)	0.00		

PARAMETERS

pH	8.20
Temperature (^{O}F)	140.00
Density(g/mL)	1.00
Pressure(psia)	14.70
Calculated T.D.S.	8420
Molar Conductivity	12679

BJ Chemical Services
Roosevelt, Utah

DownHole SAT(tm)

MULTI-CHEM WATER
DEPOSITION POTENTIAL INDICATORS

EL PASO PRODUCTION — Lawson 1-21A1
ALTAMONT FIELD — MC WA-43984

Report Date: 09-29-2010 Sampled: 07-23-2010

SATURATION LEVEL		MOMENTARY EXCESS (Lbs/1000 Barrels)	
Calcite ($CaCO_3$)	16.37	Calcite ($CaCO_3$)	17.81
Aragonite ($CaCO_3$)	13.53	Aragonite ($CaCO_3$)	17.68
Witherite ($BaCO_3$)	0.381	Witherite ($BaCO_3$)	7.92
Strontianite ($SrCO_3$)	0.00	Strontianite ($SrCO_3$)	11.44
Magnesite ($MgCO_3$)	2.92	Magnesite ($MgCO_3$)	14.11
Anhydrite ($CaSO_4$)	0.0101	Anhydrite ($CaSO_4$)	-712.38
Gypsum ($CaSO_4*2H_2O$)	0.0124	Gypsum ($CaSO_4*2H_2O$)	-792.56
Barite ($BaSO_4$)	9.78	Barite ($BaSO_4$)	18.21
Iron hydroxide ($Fe(OH)_3$)	< 0.001	Iron hydroxide ($Fe(OH)_3$)	< 0.001
Strengite ($FePO_4*2H_2O$)	0.00	Strengite ($FePO_4*2H_2O$)	>-0.001
Siderite ($FeCO_3$)	1753	Siderite ($FeCO_3$)	0.615
Iron sulfide (FeS)	31.28	Iron sulfide (FeS)	0.0975

OPERATING CONDITIONS

Temperature (^oF)	160.00
Time(secs)	1.00

BJ Chemical Services
Roosevelt, Utah

DownHole SAT(tm)

MIXED WATER

EL PASO PRODUCTION	ALTAMONT FIELD	MultiChem	Lawson 1-21A1 SWD
Lawson 1-21A1	2010405938	Sample Date:7-23-10	
Report Date 09-29-2010	Sample # 0	Report Date 09-29-2010	Sample # 0
Sample Date 08-25-2010	at 0000	Sample Date 07-23-2010	at 0000

	% BJCS WATER						
SATURATION LEVEL	**0.00**	**16.67**	**33.33**	**50.00**	**66.67**	**83.33**	**100.00**
Calcite	16.37	13.85	17.28	21.59	26.15	30.76	35.33
Aragonite	13.53	11.42	14.23	17.74	21.45	25.18	28.87
Witherite	0.381	0.532	0.817	1.16	1.55	1.97	2.42
Strontianite	0.00	1.24	2.27	3.40	4.60	5.83	7.08
Magnesite	2.92	4.58	6.84	9.32	11.85	14.34	16.77
Anhydrite	0.0101	0.0133	0.0151	0.0164	0.0174	0.0182	0.0190
Gypsum	0.0124	0.0160	0.0177	0.0186	0.0192	0.0195	0.0196
Barite	9.78	19.46	24.89	28.03	29.81	30.71	31.04
Ferric hydroxide	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Siderite	1753	1071	981.50	946.15	904.20	842.56	757.55
Strengite	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Iron sulfide	31.28	17.57	14.56	12.64	10.90	9.20	7.53

SIMPLE INDICES

BJ Chemical Services
Roosevelt, Utah

DownHole SAT(tm)

MIXED WATER
DEPOSITION POTENTIAL INDICATORS

EL PASO PRODUCTION ALTAMONT FIELD MultiChem Lawson 1-21A1 SWD
Lawson 1-21A1 2010405938 Sample Date:7-23-10
Report Date 09-29-2010 Sample # 0 Report Date 09-29-2010 Sample # 0
Sample Date 08-25-2010 at 0000 Sample Date 07-23-2010 at 0000

		% BJCS WATER						
TOTAL VS FREE IONS		**0.00**	**16.67**	**33.33**	**50.00**	**66.67**	**83.33**	**100.00**
Ca	Total	51.00	87.50	124.00	160.50	197.00	233.50	270.00
	Free	35.03	54.76	69.95	82.30	92.47	100.91	107.93
Ba	Total	2.90	7.73	12.57	17.40	22.23	27.07	31.90
	Free	2.90	7.73	12.57	17.40	22.23	27.07	31.90
CO_3	Total	126.67	99.98	130.95	177.80	237.31	309.54	395.29
	Free	24.56	15.60	17.18	20.04	23.30	26.73	30.24
PO_4	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Free	0.00	0.00	0.00	0.00	0.00	0.00	0.00
O_4	Total	252.00	254.33	256.67	259.00	261.33	263.67	266.00
	Free	222.00	216.01	212.44	209.98	208.25	206.95	205.94

FREE ION MOMENTARY EXCESS (Lbs/1000 barrels)

Calcite	12.78	8.28	9.30	11.01	12.92	14.93	16.97
Aragonite	12.49	8.11	9.16	10.87	12.79	14.79	16.83
Witherite	-2.10	-2.51	-1.03	0.910	3.03	5.25	7.53
Strontianite	-0.976	0.412	2.36	4.49	6.69	8.93	11.20
Magnesite	3.03	5.15	6.68	8.33	10.02	11.73	13.43
Anhydrite	-597.88	-636.35	-664.30	-684.38	-698.36	-707.42	-712.44
Barite	1.54	4.34	7.13	9.91	12.69	15.46	18.21
Ferric hydroxide	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Siderite	1.08	1.19	1.11	0.992	0.870	0.744	0.618
Strengite	>-0.001	>-0.001	>-0.001	>-0.001	>-0.001	>-0.001	>-0.001
Iron sulfide	0.243	0.258	0.223	0.188	0.155	0.125	0.0971

BJ Chemical Services
Roosevelt, Utah

Chemical Services

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WATER CHEMISTRY AT VARIOUS RATIOS

EL PASO PRODUCTION ALTAMONT FIELD MultiChem Lawson 1-21A1 SWD
Lawson 1-21A1 2010405938 Sample Date:7-23-10
Report Date 09-29-2010 Sample # 0 Report Date 09-29-2010 Sample # 0
Sample Date 08-25-2010 at 0000 Sample Date 07-23-2010 at 0000

	% BJCS WATER						
CATIONS	**0.00**	**16.67**	**33.33**	**50.00**	**66.67**	**83.33**	**100.00**
Calcium(as Ca)	51.00	87.50	124.00	160.50	197.00	233.50	270.00
Magnesium(as Mg)	7.00	21.83	36.67	51.50	66.33	81.17	96.00
Barium(as Ba)	2.90	7.73	12.57	17.40	22.23	27.07	31.90
Strontium(as Sr)	0.00	4.23	8.47	12.70	16.93	21.17	25.40
Sodium(as Na)	3042	3987	4931	5876	6821	7765	8710
Potassium(as K)	0.00	26.50	53.00	79.50	106.00	132.50	159.00
Lithium(as Li)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Iron(as Fe)	2.10	1.91	1.71	1.52	1.33	1.13	0.940
Ammonia(as NH_3)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aluminum(as Al)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Boron(as B)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manganese (as Mn)	0.00	0.0967	0.193	0.290	0.387	0.483	0.580
Zinc (as Zn)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lead (as Pb)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ANIONS							
Chloride(as Cl)	4000	5117	6233	7350	8467	9583	10700
Sulfate(as SO_4)	252.00	254.33	256.67	259.00	261.33	263.67	266.00
Bromine (as Br)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dissolved CO_2	9.4	0.0	0.0	0.0	0.0	0.0	0.0
Bicarbonate	925.8	1769.5	2545.7	3304.9	4052.2	4786.6	5507.5
Carbonate	126.7	100.0	130.9	177.8	237.3	309.5	395.3
Silica(as SiO_2)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phosphate(as PO_4)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
H2S(as H_2S)	0.500	1.08	1.67	2.25	2.83	3.42	4.00
Fluoride(as F)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nitrate(as NO_3)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PARAMETERS							
pH	8.20	7.69	7.55	7.48	7.43	7.40	7.38
Temperature(^oF)	140.00	143.33	146.67	150.00	153.33	156.67	160.00
Pressure(psia)	14.70	14.70	14.70	14.70	14.70	14.70	14.70
Density(g/mL)	1.00	1.00	1.01	1.01	1.01	1.02	1.02
Calculated TDS	8420	11377	14334	17290	20246	23201	26157

BJ Chemical Services

BJ Chemical Services
Roosevelt, Utah

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: FEE

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:

1. TYPE OF WELL
Water Injection Well

8. WELL NAME and NUMBER: LAWSON 1-21A1

2. NAME OF OPERATOR:
EL PASO E&P COMPANY, LP

9. API NUMBER: 43013307380000

3. ADDRESS OF OPERATOR:
1001 Louisiana St. , Houston, TX, 77002

PHONE NUMBER: 713 420-5038 Ext

9. FIELD and POOL or WILDCAT: BLUEBELL

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1546 FSL 1516 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NESW Section: 21 Township: 01.0S Range: 01.0W Meridian: U

COUNTY: DUCHESNE

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: 9/30/2011	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: First Injection

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

On September 30, 2011 the well had first injection. The first injection rate was 1608 bbls per day @ 1550 psi.

Accepted by the Utah Division of Oil, Gas and Mining

Date: January 09, 2012

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Maria S. Gomez	713 420-5038	Principle Regulatory Analyst
SIGNATURE N/A		**DATE** 1/5/2012

RECEIVED: Jan. 05, 2012

Mark Reinbold - Fwd: FW: Lawson 1-21A1 SWD - Entity 00935

From: Carol Daniels
To: markreinbold@utah.gov
Date: 12/22/2011 9:05 AM
Subject: Fwd: FW: Lawson 1-21A1 SWD - Entity 00935

Hope you get this. Carol

>>> "Trejo, Nicholas R (Nick)" <Nicholas.Trejo@ElPaso.com> 12/22/2011 8:20 AM >>>

Good morning,

I was just checking to see if you have received the necessary paperwork for the Lawson 1-21A1 SWD to convert from oil producing well to salt water disposal well.

From: Gomez, Maria S
Sent: Friday, December 16, 2011 12:16 PM
To: Trejo, Nicholas R (Nick)
Subject: RE: Lawson 1-21A1 SWD - Entity 00935

Yes, I handle. Will do Monday.

Thanks,

Maria S. Gomez
Principle Regulatory Analyst
713-420-5038 Office
713-445-8554 Fax
832-683-0361 Cell

From: Trejo, Nicholas R (Nick)
Sent: Friday, December 16, 2011 12:07 PM
To: Gomez, Maria S
Cc: Griffin, Ingrid S
Subject: FW: Lawson 1-21A1 SWD - Entity 00935

I'm not sure if you handle the below request. Please let me know if you need help. Apparently the subject well is still listed as an oil well (on the state website) but should be a salt water disposal well.

From: Carolyn Williams [mailto:carolynwilliams@utah.gov]
Sent: Friday, December 16, 2011 11:25 AM
To: Trejo, Nicholas R (Nick)
Subject: Re: Lawson 1-21A1 SWD - Entity 00935

It looks like the only paperwork we need is a sundry listing the first injection information. Once that is received, the well will be converted in our system and then it will drop off your production report.

They sundry can be e-mailed to caroldaniels@utah.gov

Your Sept and Oct report had this well listed with a produced water amount. Were those injected amounts? If so, I will zero those out and change the status.

Thanks
Carolyn

****
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****

Mark Reinbold - RE: Lawson 1-21A1 SWD (43-013-30738)

From: "Nelson, Jordan R" <Jordan.Nelson@ElPaso.com>
To: Mark Reinbold <markreinbold@utah.gov>
Date: 8/3/2011 12:17 PM
Subject: RE: Lawson 1-21A1 SWD (43-013-30738)

Mark:

We are currently building the injection facility so we should begin injecting in a few weeks.

Jordan Nelson
Sr Production Engineer

El Paso Exploration & Production
1001 Louisiana Street
Houston, TX 77002
office: 713-420-5781
cell: 303-880-1080

From: Mark Reinbold [mailto:markreinbold@utah.gov]
Sent: Wednesday, August 03, 2011 12:54 PM
To: Nelson, Jordan R
Subject: Lawson 1-21A1 SWD (43-013-30738)

Hi Jordan,

I'm trying to get this well file put to bed. Do you know if there is anything happening with respect to first injection, or has it been given back burner status? Would appreciate anything you might know. Thanks.

Mark L. Reinbold, Environmental Scientist
Utah Department of Natural Resources
Division of Oil, Gas & Mining
1594 W North Temple
PO Box 145801
Salt Lake City, UT 84114-5801

Phone 801-538-5333
Fax 801-539-3940
****
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****

GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

UNDERGROUND INJECTION CONTROL PERMIT

Cause No. UIC-359

Operator: El Paso E&P Company, L.P.

Well: Lawson 1-21A1

Location: Section 21, Township 1 South, Range 1 West, USM

County: Duchesne

API No.: 43-013-30738

Well Type: Saltwater Injection

Stipulations of Permit Approval

1. Maximum Allowable Injection Pressure: 1,700 psig
2. Maximum Allowable Injection Rate: (restricted by pressure limitation)
3. Injection Interval: Green River Formation (8,642' – 8,981')

Approved by: John Rogers
Associate Director

2/28/2011
Date

JR/MLR/js
cc: Bruce Suchomel, Environmental Protection Agency
Duchesne County
Well File
N:\O&G Reviewed Docs\ChronFile\UIC\El Paso E&P

FILED

FEB 24 2011

SECRETARY, BOARD OF
OIL, GAS & MINING

BEFORE THE BOARD OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH

IN THE MATTER OF THE APPLICATION OF EL PASO E & P COMPANY [*SIC, L.P.*] FOR APPROVAL OF THE LAWSON 1-21A1 WELL LOCATED NE QUARTER OF THE SW QUARTER OF SECTION 21, T1SO, R1WEST, SLM [*SIC, USM*] DUCHESNE COUNTY, UTAH, AS A CLASS II INJECTION WELL	**FINDINGS OF FACT, CONCLUSIONS OF LAW AND ORDER** Docket No. 2011-001 Cause No. UIC-359.1

This Cause came on for hearing before the Utah Board of Oil, Gas and Mining (the "Board") on Wednesday, January 26, 2011, at approximately 3:05 p.m., in the Auditorium of the Utah Department of Natural Resources Building in Salt Lake City. The following Board members were present and participated at the hearing: Chairman Douglas E. Johnson, Samuel C. Quigley, Jean Semborski, Ruland J. Gill, Jr., and Kelly L. Payne. Board Member Jake Y. Harouny was unable to attend. Board member James T. Jensen was present and participated for most of the hearing, but asked to be and was excused before the hearing concluded, and therefore did not participate in deliberations or in the vote in this Cause. The Board was represented by Michael S. Johnson, Esq., Assistant Attorney General.

Testifying on behalf of Applicant El Paso E&P Company, L.P. ("El Paso") were Marie D. O'Keefe – Sr. Regulatory Analyst, James M. Borer – Sr. Staff Geologist, and Jordan R. Nelson – Sr. Production Engineer. Mssrs. Borer and Nelson were recognized

by the Board as experts in geology and petroleum engineering, respectively, for purposes of this Cause. In addition, Catherine L. Hammock, Sr. Staff Landman for El Paso, testified as a rebuttal witness. Frederick M. MacDonald, Esq., of and for Beatty & Wozniak, P.C., appeared as attorney for El Paso.

Testifying on behalf of the Division of Oil, Gas and Mining (the "Division") were Mark Reinbold – Permitting Environmental Scientist, and Brad Hill – Oil & Gas Permitting Manager. Mr. Reinbold was recognized by the Board as an expert in geology for purposes of this Cause. Steven F. Alder, Esq., Assistant Attorney General, appeared as attorney on behalf of the Division. At the conclusion of the parties' presentations-in-chief, the Division expressed its support for the granting of El Paso's Application.

Mrs. Valerie Hudson Cassler appeared on her and her husband's, David Cassler's, behalf, and also testified. The Casslers filed a response to the Notice of Agency Action filed by the Division on December 13, 2010 in this Cause (the "NAA") on January 5, 2011, objecting to El Paso's Application.

Mr. Jared Jensen, an officer of Emerald Marketing & Technology ("Emerald") and a resident upon Emerald's lands within a ½ mile radius of the injection well which is the subject of this Cause, made a statement to the Board at the conclusion of the parties' presentations-in-chief. Neither Mr. Jensen nor Emerald filed a timely response to the NAA.

Mr. William Ingalls also filed a response to the NAA on January 11, 2011, raising questions and concerns over El Paso's Application, but did not appear at the hearing.

No other party filed a response to the NAA and no other party appeared or participated at the hearing.

The Board, having considered the testimony presented and the exhibits received into evidence at the hearing, being fully advised and for good cause, hereby makes the following findings of fact, conclusions of law and order in this Cause:

FINDINGS OF FACT

1. El Paso is a Delaware limited partnership with its principal places of business in Houston, Texas and Denver, Colorado. El Paso is duly qualified to conduct business in the State of Utah, and is fully and appropriately bonded with all relevant Federal and State of Utah agencies.

2. On December 8, 2009, El Paso submitted an Application for Injection Well (Division Form 1) with related attachments seeking approval of the conversion of the Lawson 1-21A1 Well, located in the NE¼SW¼ of Section 21, Township 1 South, Range 1 West, USM (the "Lawson Well"), to a Class II injection well for water disposal, with injection intervals between 6,387 feet and 6,699 feet and a proposed maximum injection rate to be established by a step-rate test. El Paso originally filed the application as agent for Homeland Gas & Oil ("Homeland"), then operator of the Lawson Well on behalf of the then

wellbore owner, Mountain Oil and Gas Inc. ("Mountain"). On January 22, 2010, El Paso, as Agent, filed an amended Form 1 modifying the previously filed application to change the proposed injection intervals from between 8,642 feet and 8,981 feet in response to further geologic analysis and pursuant to a recommendation of the Division. The December 8, 2009 and January 22, 2010 filings are collectively hereinafter referred to as the "Application."

3. Effective April 13, 2010, El Paso purchased the Lawson Wellbore from Mountain and was designated operator thereof by Homeland. It thus became the applicant under the Application in its sole right.

4. Notice of the Application was mailed by El Paso and the Division to all operators, owners and surface owners within a one-half mile radius of the Lawson Well, and published in the Salt Lake Tribune on December 19, 2009 and in the Uintah Basin Standard and Vernal Express on December 22, 2009.

5. Letters of protest and/or inquiry, including those filed by the Casslers and Mr. Ingalls, were timely received by the Division in response to the mailed/published Notice. As a consequence, the Application no longer qualified for administrative approval by the Division alone and was instead required to be set for hearing before the Board pursuant to Utah Admin. Code Rule R649-5-3.4. The Division filed the NAA on December 13, 2010, giving notice of the docketing with, and hearing on the Application by, the Board.

6. A copy of the NAA was mailed, postage pre-paid and properly addressed to all owners, operators and surface owners within a one-half mile radius of the Lawson Well,

including the Casslers, Mr. Ingalls and Emerald, to their last addresses disclosed by the Duchesne County realty records and/or tax assessment rolls and the records of the Division.

7. Notice of the filing of the NAA and of the hearing thereon was duly published in the Salt Lake Tribune and the Deseret Morning News on January 3, 2011 and in the Uintah Basin Standard on January 4, 2011.

8. There are no other abandoned or active wellbores within a one-half mile radius of the Lawson Well drilled to the depths of the proposed injection zones, and all water wells within a one-half mile radius are drilled to depths not exceeding 1,000 feet.

9. The proposed injection intervals are within the Middle Green River formation. The proposed injection intervals target a sand-rich interval near the base of the Middle Green-River Formation above the TGR_3 marker. Porosity ranges from 6-22%, with a thickness-weighted average of 12.3% and 10.6 phi * H. Twenty-one (21), 2-12' thick intervals are targeted for injection. The Middle Green River formation in this area is incapable of producing hydrocarbons in economic quantities. There are at least two other approved injection wells in the region currently injecting into the Middle Green River formation.

10. Geological confinement of the proposed injection zones is provided by basal aquitards comprised below of a regional lacustrine shale from 8,984'-9,086' at the base of the Middle Green River formation, just above the TGR_3 marker, and comprised above of Middle and Upper Green River lacustrine shale rich intervals and at least three

major thick mudstone-dominated intervals in the Uinta and Duchesne River formations that are likely aquitards

11. The base of the moderately saline ground water in the area, being the only potential underground sources of drinking water ("USDW") as defined in Utah Admin. Code Rule R649-1-1, is in excess of 7,000 feet shallower than the proposed injection zones. The Middle Green River formation does not itself constitute an USDW.

12. Chemical and water compatibility analyses conducted as part of the Application reflect that total dissolved solids ("TDS's") collected from the proposed injection zones of the Middle Green River formation in the Lawson Well were 26,360 mg/L whereas samples collected from produced water from nine El Paso operated wells, representative of the water proposed for injection into the Lawson Well, had TDS's ranging between 6,633-9,380 mg/L with a commingled TDS of 8,456 mg/L. In addition, said analyses reflect that there is no significant incompatibility between said water samples.

13. Cement bond logs for the Lawson Well, including a confirmatory log run in the Summer of 2010, confirm isolation of over 2,000 feet, reflecting adequate protection from potential up-hole migration.

14. Step-rate testing conducted in the Summer of 2010 confirmed a maximum surface injection rate of 1,811 psi will not initiate fractures of the confining geologic formations that could enable the injection fluid or formation fluid to enter any fresh water

strata. As a further safety measure, and at the Division's request, El Paso agreed at the hearing to modify its maximum requested surface injection rate to 1,700 psi.

15. The Lawson Well is of sufficient mechanical integrity to be capable of maintaining injection at a surface injection rate of 1,700 psi without compromise.

16. The Lawson Well is completed, equipped and, if operated at a maximum surface injection rate of 1,700 psi into the intervals between 8,642 feet and 8,981 feet in the Middle Green River formation, and maintained as required under Utah Admin. Code Rule R649-5-5, will be operated and maintained in a manner that will prevent pollution and damage to any USDW or other resources, and will confine injection fluids to the intervals proposed.

17. Respondent Casslers failed to provide any credible technical evidence to rebut or otherwise overcome the factual findings outlined above. Nevertheless, the Board understands and is sensitive to the Respondents' concerns to minimize operational impacts upon their property.

18. After initially taking the matter under advisement, the vote of the Board members participating in this Cause was unanimous (5-0) to approve the Application with a maximum surface injection rate of 1,700 psi.

CONCLUSIONS OF LAW

1. Due and regular notice of the time, place and purpose of the hearing was properly given to all parties whose legally protected interests are affected by the

Application and NAA in the form and manner as required by law and the rules and regulations of the Board and Division.

2. The Board has jurisdiction over all matters covered by the Application and NAA and all interested parties therein, and has the power and authority to render the order herein set forth pursuant to Utah Code Ann. §40-6-5(5)(a) and Utah Admin. Code Rule R649-5-3.4.

3. El Paso has sustained its burden of proof and demonstrated good cause for approval of the Application.

4. All criteria for approval of Class II Injection Well applications as set forth in Utah Admin. Code Rule R649-5-2 are deemed satisfied.

5. The Application is otherwise deemed complete and technically adequate in all respects and satisfies all statutory and regulatory requirements.

6. Approval of the Application with a maximum surface injection rate of 1,700 psi is fair, just and reasonable under the circumstances and consistent with the goals and purposes of the Utah Oil and Gas Conservation Act (Utah Code Ann. §§40-6-1, *et seq.*).

ORDER

Based upon the Application and NAA, testimony and evidence submitted, and the findings of fact and conclusions of law stated above, the Board hereby orders:

1. The Application, with a modified maximum surface injection rate of 1,700

psi, is approved. The Division is directed to issue a conforming Class II injection permit to El Paso.

2. The objections of Respondents Casslers and Ingalls are denied. However, the Board encourages El Paso as a good citizen to work with nearby homeowners to address their concerns and minimize the impact of its operations.

3. Pursuant to Utah Admin. Code Rules R641 and Utah Code Ann. §§63G-4-204 to 208, the Board has considered and decided this matter as a formal adjudication.

4. This Order is based exclusively on evidence of record in the adjudicative proceeding or on facts officially noted, and constitutes the signed written order stating the Board's decision and the reasons for the decision, all as required by the Administrative Procedures Act, Utah Code Ann. §63G-4-208 and Utah Administrative Code Rule R641-109.

5. Notice re: Right to Seek Judicial Review by the Utah Supreme Court or to Request Board Reconsideration: As required by Utah Code Ann. §63G-4-208(e) - (g), the Board hereby notifies all parties in interest that they have the right to seek judicial review of this final Board Order in this formal adjudication by filing a timely appeal with the Utah Supreme Court within 30 days after the date that this Order issued. Utah Code Ann. §§63G-4-401(3)(a) and 403. As an alternative to seeking immediate judicial review, and not as a prerequisite to seeking judicial review, the Board also hereby notifies parties that they may elect to request that the Board reconsider this Order, which

constitutes a final agency action of the Board. Utah Code Ann. §63G-4-302, entitled, "Agency Review - Reconsideration," states:

> (1)(a) Within 20 days after the date that an order is issued for which review by the agency or by a superior agency under Section 63G-4-301 is unavailable, and if the order would otherwise constitute final agency action, any party may file a written request for reconsideration with the agency, stating the specific grounds upon which relief is requested.
> (b) Unless otherwise provided by statute, the filing of the request is not a prerequisite for seeking judicial review of the order.
>
> (2) The request for reconsideration shall be filed with the agency and one copy shall be sent by mail to each party by the person making the request.
>
> (3)(a) The agency head, or a person designated for that purpose, shall issue a written order granting the request or denying the request.
>
> (b) If the agency head or the person designated for that purpose does not issue an order within 20 days after the filing of the request, the request for reconsideration shall be considered to be denied.

Id. The Board also hereby notifies the parties that Utah Admin. Code Rule R641-110-100, which is part of a group of Board rules entitled, "Rehearing and Modification of Existing Orders," states:

> Any person affected by a final order or decision of the Board may file a petition for rehearing. Unless otherwise provided, a petition for rehearing must be filed no later than the 10th day of the month following the date of signing of the final order or decision for which the rehearing is sought. A copy of such petition will be served on each other party to the proceeding no later than the 15th day of the month.

Id. *See* Utah Admin. Code Rule R641-110-200 for the required contents of a petition for Rehearing. If there is any conflict between the deadline in Utah Code Ann. §63G-4-302

and the deadline in Utah Admin. Code Rule R641-110-100 for moving to rehear this matter, the Board hereby rules that the later of the two deadlines shall be available to any party moving to rehear this matter. If the Board later denies a timely petition for rehearing, the party may still seek judicial review of the Order by perfecting a timely appeal with the Utah Supreme Court within 30 days thereafter.

6. The Board retains continuing jurisdiction over all the parties and over the subject matter of this cause, except to the extent said jurisdiction may be divested by the filing of a timely appeal to seek judicial review of this order by the Utah Supreme Court.

7. For all purposes, the Chairman's signature on a faxed copy of this Order shall be deemed the equivalent of a signed original.

DATED this 24 day of FEBRUARY, 2011.

STATE OF UTAH
BOARD OF OIL, GAS AND MINING

By: Douglas E. Johnson
Douglas E. Johnson, Chairman

CERTIFICATE OF SERVICE

I hereby certify that I caused a true and correct copy of the foregoing FINDINGS OF FACT, CONCLUSIONS OF LAW AND ORDER for Docket No. 2011-001, Cause No. UIC-359.1 to be mailed with postage prepaid, this 24th day of February, 2011, to the following:

Frederick M. MacDonald
Beatty & Wozniak
6925 Union Park Center, Suite 525
Cottonwood Heights, UT 84047

El Paso E&P Company, LP
Attn: Marie O'Keefe
1099 18th Street, Suite 1900
Denver, CO 80202

Michael S. Johnson
Assistant Attorneys General
Utah Board of Oil, Gas & Mining
1594 West North Temple, Suite 300
Salt Lake City, UT 84116
[Via Email]

Steven F. Alder
Fred Donaldson
Assistant Attorneys General
Utah Division of Oil, Gas & Mining
1594 West North Temple, Suite 300
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[Via Email]

R. Garold and Carol E. Dye
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Roosevelt, UT 84066-9704

John Chasel
2285 Lucky John Dr.
Park City, UT 84060-6914

Max Harvey Weiss
7509 Blackfair Circle
West Jordan, UT 84084-0000

Emerald Marketing & Technology
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Henry L. Hazel
RR 1, Box 1086
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David E. and Valerie M. Hudson Cassler
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Orem, UT 84097-4823

William V. Ingalls
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Vernal, UT 84078-8865

Craig Phillips
Homeland Gas and Oil
2800 West Highway 40
Roosevelt, UT 84066

R. Cory and Susan M. Dye
RR1, Box 1089
Roosevelt, UT 84066

Julie Ann Carter

GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

FILED
JAN 19 2011
SECRETARY, BOARD OF OIL, GAS & MINING

January 18, 2011

TO: The Board of Oil, Gas and Mining

FROM: John Rogers, Associate Director, Oil and Gas
Dustin Doucet, Petroleum Engineer
Brad Hill, Permitting Manager/Geologist
Clinton Dworshak, Compliance Manager/Geologist

RE: Staff Memorandum to the Board for Docket No. 2011-001
Cause No. UIC-359.1

The Oil and Gas staff of the Division of Oil, Gas and Mining (Division) has reviewed the referenced matter which will be presented to the Board of Oil, Gas and Mining (Board) during the January 26, 2011, hearing. With this memorandum, the Division summarizes its consideration of the matter.

Summary of Requests for Agency Action

The Utah Division of Oil, Gas and Mining through its attorney Steven F Alder, filed the Notice of Agency Action and is requesting an order from the Board approving the Lawson 1-21A1 well (subject well) as a Class II injection well and authorizing the underground injection of produced water for the purpose of water disposal. The subject well is located in Section 21, Township 1 South, Range 1 West, USB&M, Duchesne County, Utah. El Paso E&P Company, L.P. (El Paso) will appear with legal representation by Frederick M. MacDonald of Beatty & Wozniak, P.C.

Comments from Staff Review of Request

The standards for Class II injection approval are set out in R649-5.

Notice that the Division was commencing an informal adjudicative proceeding to consider administrative approval of the subject well as a Class II injection well was published in the Salt Lake Tribune on December 19, 2009 and in the Uintah Basin Standard, Roosevelt, Utah and the Vernal Express, Vernal, Utah, on December 22, 2009. Seven letters of comment and/or protest were received by the Division as a result of the published notice. These letters were authored by three individuals or groups of individuals. The Division prepared and mailed written responses to the submitted comments/objections. R649-5-3.4 requires that the application be set for a hearing by the Board if written objections are filed with the Division.

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114 -5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • www.ogm.utah.gov

UTAH DNR OIL, GAS & MINING

Two letters were filed with the Board as a result of the Notice of Agency Action. These were filed by some of the same individuals who sent the initial comments/objections to the Division in response to the original notice in December 2009. These individuals can be expected to appear at the January 26th hearing. They have a long list of concerns including truck traffic, ground water protection, safety, induced seismicity and others.

El Paso should be prepared to give testimony addressing the concerns stated in the letters filed with the Division and the Board.

Recommendation

The Division has completed its review of the UIC application and is ready to issue the Class II permit. If after hearing the testimony presented by El Paso it appears that the concerns brought by the parties mentioned have been sufficiently addressed, the Division would recommend that the Board approve the request as stated in the Notice of Agency Action.

CERTIFICATE OF SERVICE

I hereby certify that I caused a true and correct copy of the foregoing STAFF MEMORANDUM for Docket No. 2011-001, Cause No. UIC-359.1 to be mailed with postage prepaid, this 19th day of January, 2011, to the following:

Frederick M. MacDonald
Beatty & Wozniak
6925 Union Park Center, Suite 525
Cottonwood Heights, UT 84047

El Paso E&P Company, LP
Attn: Marie O'Keefe
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Denver, CO 80202

Michael S. Johnson
Assistant Attorneys General
Utah Board of Oil, Gas & Mining
1594 West North Temple, Suite 300
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[Via Email]

Steven F. Alder
Fred Donaldson
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Duchesne County
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William V. Ingalls
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Vernal, UT 84078-8865

Carlene Russell

GARY R. HERBERT
Governor

GREG BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

News Release
For Immediate Release
January 13, 2011
Contact: Jim Springer
(801) 538-5324 or (801) 243-9466
jimspringer@utah.gov

UTAH BOARD OF OIL, GAS AND MINING TO MEET IN REGULAR SESSION

Salt Lake City, Utah -- The Utah Board of Oil, Gas and Mining will meet on Wednesday, January 26, 2011, in the auditorium of the Department of Natural Resources, 1594 West North Temple, Salt Lake City, Utah.

The director of the Division of Oil, Gas and Mining will conduct an information briefing session beginning at 8:00 a.m. Topics to be presented include updates on recent Legislative activities, an overview of oil shale development in the Uintah Basin, and a status report on oil, gas and coal rules due for five-year review and renewal. The formal agenda will begin at 9:00 a.m.

AGENDA

1. Docket No. 2010-026 Cause No. C/015/0032F – In The Matter of the Request for Agency Action of GENWAL RESOURCES, INC., Petitioner and Permittee; Division of Oil, Gas and Mining, Respondent – Request for Board Review of Division Order DO10A, Requiring Bonding for the Perpetual Treatment of Mine Water Discharge at the Crandall Canyon Mine in Emery County, Utah.

This matter was continued from the December 8, 2010, board hearing. Petitioner is questioning the authority of the division to require a "perpetual" action.

2. Docket No. 2010-027 Cause No. M/047/0090 A – In the Matter of the Request for Agency Action of LIVING RIVERS, Petitioner; Division of Oil, Gas and Mining, Respondent – Request to Appeal the Decision of the Division of Oil, Gas and Mining Approving the Application of Earth Energy Resources to Conduct Tar Sands Mining and Reclamation Operations at the PR Springs Mine, Uintah County, Utah.

This matter is expected to be continued until the February 23, 2011, board hearing.

(more)

3. Docket No. 2010-028 Cause No. M/039/013 – In the Matter of the Petition by the Division of Oil, Gas, and Mining for an Order: (1) to Withdraw NOI M/039/013 for B&C LIMESTONE QUARRY; (2) to Forfeit Letter of Credit No. 015413040 from Far West Bank, to Direct the Division to Complete Reclamation, and to Authorize a Civil Suit to Recover Costs from BRYCE HAAS; and (3) to Take all Other Actions Necessary to Reclaim the Lands at S1/2 SW1/4, S32, T18S, R1E SLB&M and Lots 3 & 4 N1/4, S5, T19S R1E SLB&M, Sanpete County, Utah.

This matter was continued from the December 8, 2010, board hearing. The Division is requesting an order to reclaim the quarry site and recover costs.

4. Docket No. 2011-001 Cause No. UIC-359.1 – In the Matter of the Application of EL PASO E & P COMPANY, L.P. for Approval of the Lawson 1/21A1 Well Located NE Quarter of the SW Quarter of Section 21, T1S, R1W, USM, Duchesne County, Utah, as a Class II Injection Well.

Petitioner is seeking approval for an injection well. Board will hear objections to the well location.

###

Lawson 1-21A1 43-013-30738

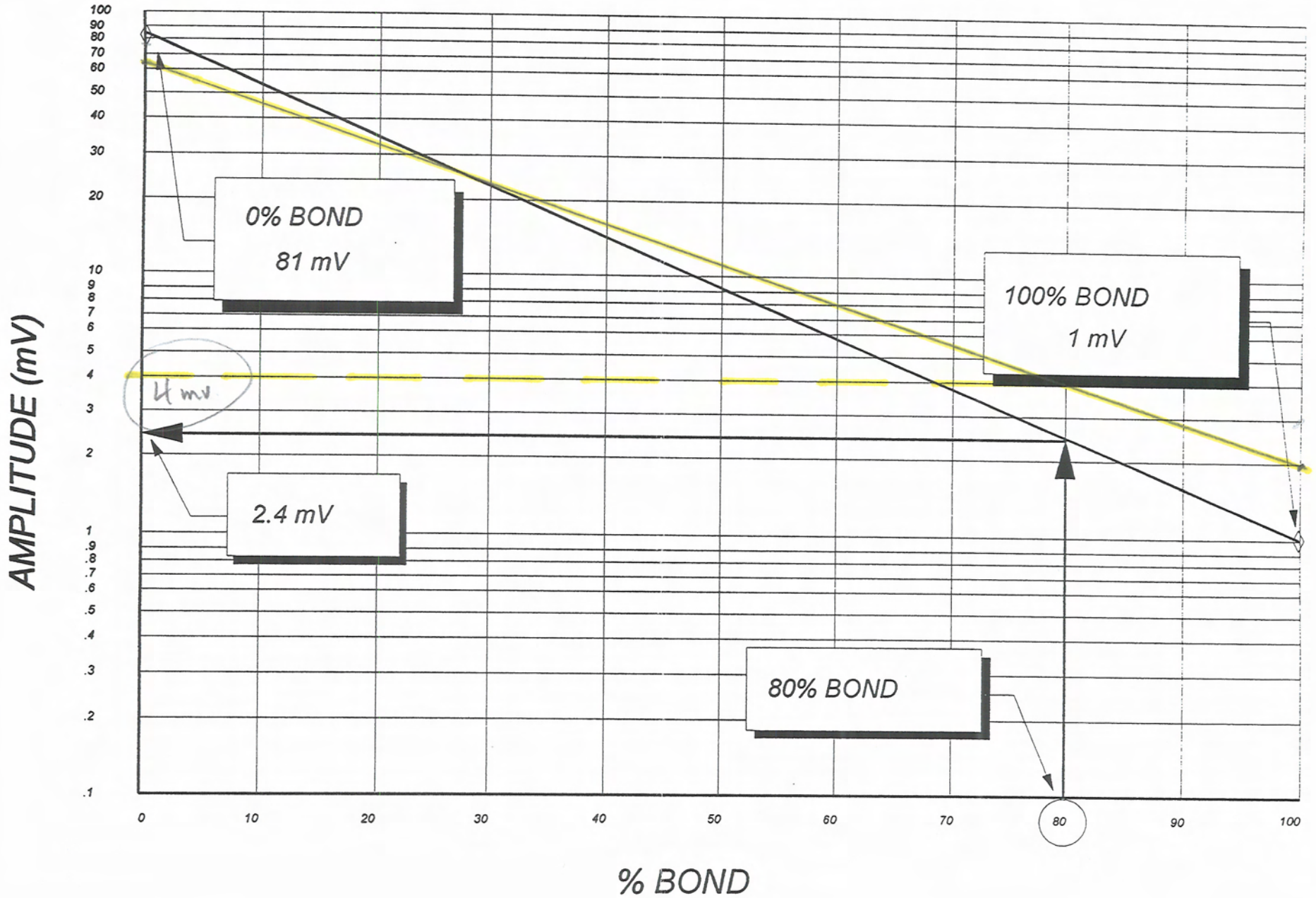

TABLE 2 - TRAVEL TIMES AND AMPLITUDES FOR FREE PIPE
(3 FT RECEIVER)

CASING SIZE (in)	CASING WEIGHT (lb/ft)	TRAVEL TIME (µs)		AMPLITUDE (mV)
		1-11/16" TOOL	3-5/8" TOOL	
4-1/2	9.5	252	233	81
	11.6	250	232	81
	13.5	249	230	81
5	15.0	257	238	76
	18.0	255	236	76
	20.3	253	235	76
5-1/2	15.5	266	248	72
	17.0	265	247	72
	20.0	264	245	72
	23.0	262	243	72
7	23.0	291	271	62
	26.0	289	270	62
	29.0	288	268	62
	32.0	286	267	62
	35.0	284	265	62
	38.0	283	264	62
7-5/8	26.4	301	281	59
	29.7	299	280	59
	33.7	297	278	59
	39.0	295	276	59
9-5/8	40.0	333	313	51
	43.5	332	311	51
	47.0	330	310	51
	53.5	328	309	51
10-3/4	40.5	354	333	48
	45.5	352	332	48
	51.0	350	330	48
	55.5	349	328	48

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UIC INJECTION PERMIT APPLICATION ANALYSIS FORM
WELL NAME: Lawson 1-21A1 SWD, Altamont-Bluebell-Cedar Rim Field API #: 4301330738

R649-5-2. Requirements For Class II Injection Wells Including Water Disposal, Storage And Enhanced Recovery Wells.	**Completed Items, Needed Items, & Comments**
1. Injection wells shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.	1. OK
2. The application for an injection well shall include a properly completed UIC Form 1 and the following:	2. OK
2.1. A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed well, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.	2.1 OK, no other oil or gas wells located within one-half mile radius of proposed injection well.
2.2. Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper, and porosity.	2.2 OK
2.3. A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.	2.3 OK Existing Cement Bond Log 5498-TD and Cement Evaluation Log 5782-TD.
2.4. Copies of logs already on file with the division should be referenced, but need not be refiled.	2.4 OK
2.5. A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.	2.5 OK
2.6. A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.	2.6 OK
2.7. Standard laboratory analyses of (1) the fluid to be injected, (2) the fluid in the formation into which the fluid is being injected, and (3) the compatibility of the fluids.	2.7 (1) Analyses of proposed injection fluids submitted with application. (2) Water samples were taken from injection interval during recompletion and submitted to DOGM. A representative water sample from the injection zone contains water with TDS 26,360 mg/l and a pH of 7.4. (3) The water sample taken from injection interval taken during recompletion, was analyzed for compatibility with samples of injection fluids and was found to be compatible. Analyses were submitted to DOGM.
2.8. The proposed average and maximum injection pressures.	2.8 OK, proposed average injection pressure is 1500 psig, maximum is 2000 psig,
2.9. Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.	2.9 Step-rate test (SRT) was performed during recompletion to determine fracture parting pressure of Green River Formation through proposed injection interval. SRT results indicated a parting pressure of 1811 psig. A maximum allowable injection pressure of 1700 psig will be permitted.
2.10. Appropriate geological data on the injection interval and confining beds, and nearby Underground Sources of Drinking Water, including the geologic name, lithologic description, thickness, depth, water quality, and lateral extent; also information relative to geologic structure near the proposed well which may affect the conveyance and/or storage of the injected fluids.	2.10 OK
2.11. A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter improper intervals.	2.11 No other oil or gas wells within the half-mile radius Area of Review.
2.12. An affidavit certifying that a copy of the application has been provided to all operators, owners and surface owners within a one-half mile radius of the proposed injection well.	2.12 OK
2.13. Any other additional information that the board or division may determine is necessary to adequately review the application.	2.13 OK

Reviewed by: Mark Reinbold Date: November 3, 2010

DIVISION OF OIL, GAS AND MINING
UNDERGROUND INJECTION CONTROL PROGRAM

PERMIT STATEMENT OF BASIS

Applicant: El Paso Exploration & Production **Well:** Lawson 1-21A1

Location: S 21 T1S, R1W, Duchesne Co., UT **API:** 43-013-30738

Ownership Issues:

The well is located on land privately owned by R. Garold and Carol E. Dye. Mineral rights are also privately owned. An affidavit of notification of operators, mineral owners, and surface owners located within a one-half (1/2) mile radius has been provided.

Well Integrity:

Description of the Casings and Cement:

CASING PROGRAM

String Type	Hole Size	Depth	Feet	Casing Diameter	Weight	Grade
Conductor	30"	64'	64'	20"	52.73#	unknown
Surface	12 ¼"	2706'	2706'	9-5/8"	40#	unknown
Intermediate	8 ¾"	11,368'	11,368'	7"	26/32#	unknown
Production	6"	14,501'	3449'	5"	18#	P-110

CEMENT PROGRAM

String Type	DV Depth	Stage Lead/Tail	Cement Bottom	Cement Top	Number Sacks	Cement Type	Cement Yield	Cement Weight
Conductor			64'	Surface	12	Grout	?	?
Surface		Lead Tail	?	Surface	1500 200	Howcolite Class H	?	?
Intermediate		Lead Tail		5936' (?) (CBL)	400 210 225	ClassH 50/50 POZ Class H	?	?
Production		?	14,500	11,052	315	50/50 POZ	?	?

ElPaso Exploration & Production proposes to inject produced water from oil and gas production from the Wasatch and Green River Formations in the Uinta Basin. A current list of sources, consisting of eight wells, is included with the UIC Permit Application. El Paso will submit an annual list of sources for the prior year with the annual fluid injection report and fluid analyses.

A cement bond log demonstrates good cement bond in this well only up to about 7112 feet depth and possibly adequate "lite" cement up to about 5936 feet. The initially proposed injection interval was 6387 to 6699 feet, in the upper Green River Formation. Partly because the Cement Bond Log and Cement Evaluation Log both suggest that cement in the initially proposed injection interval is of dubious quality (probably necessitating a cement squeeze job), El Paso E & P has revised the proposal to inject into an interval in the middle Green River Formation, spanning a gross interval of 339 feet, from 8642′ to 8981′ depth. This sand-rich interval, above the regional TGR3 marker, includes 87 net feet of perforations, consisting of 21 smaller intervals, ranging from 2′ to 12′ thick. Porosity of these individual intervals ranges from 6 to 22%. In addition to avoiding potential problems with cement quality, the middle Green River interval has been chosen to limit injection into prospective lower and upper Green River oil and gas zones and to keep injection far below the base of moderately saline ground water (BMSGW). The proposed

injection zone should be more than 7000 feet below the BMSGW, even with the most liberal interpretation of the depth to BMSGW (according to El Paso, possibly as much as 1355 feet, based on resistivity logs in offset wells).

The cement bond log in the interval above the proposed injection interval appears to demonstrate adequate cement bond. Schlumberger ran the cement bond log at the time of the well completion in 1983. In addition to the cement bond log track at normal scale (0-100 mV), there are gamma ray, transit time, and variable density (VDL) tracks. There is no expanded scale amplitude track. The expected free pipe amplitude for 7-inch diameter steel casing is 62 mV. The log shows a maximum of approximately 76 mV. However, for the purpose of a more conservative log analysis, a value of 62 mV was used to represent 0% bond, and 2 mV was used for 100% bond. This yields a value of about 4 mV for the required 80% bond. Using the maximum value of 4 mV on the bond log for 80% bond, it can be demonstrated that there are about 91 net feet of suitable cement bond in the 405-foot interval (8235′ to 8640′) above the proposed injection interval (8642′-8981′). Immediately above the injection interval, between 8578′ and 8640′, there are 33 net feet of good bond. Farther up hole, there are 50 net feet of good bond between 8235′ and 8287′. Based on interpretation of the cement bond log, there appears to an adequate amount of good cement bond to protect groundwater aquifers above the injection zone.

A cast iron bridge plug (CIBP) will set at approximately 9080 feet, above the cemented Green River perforations, and capped with 50 feet of Class G cement. A 2 7/8 inch tubing with a packer will be set at approximately 8600 feet. A mechanical integrity test, with advance notification to DOGM, will be run on the well prior to injection. There are no other oil or gas well wells within the (0.5 mile radius) AOR. There was one abandoned well location (never drilled), Badger-Lawson 2-21A1, located slightly less than 0.5 mile due north of Lawson 1-21A1.

Update (11/03/2010): A Mechanical Integrity Test (MIT) was performed on 6/08/2010 and was witnessed by Dennis Ingram of DOGM. The test was conducted for 30 minutes, with an initial annulus pressure of 1060 psi and final pressure of 1055 psi. The result was acceptable.

The proposed average injection rate is estimated to be 1500 to 2000 barrels per day. The maximum anticipated injection rate is 2000 barrels per day, but the maximum allowed injection pressure will limit it.

In the event that the currently proposed injection interval should prove unsuitable for reasons of inadequate permeability/injectivity or chemical incompatibility between the disposal water and formation water, potential alternative injection zones are available. These would include sand-rich zones within the lower Uinta Formation fluvial-deltaic interval (5000′-5240′ or 4300′-4700′). Of course, these zones would be subject to the same scrutiny with respect to suitability of the cement in the borehole above the proposed injection interval.

Ground Water Protection:

In the Area of Review (0.5 mile radius), water wells for domestic supply are drilled into the shallow alluvium or the Dry Gulch Creek Member of the Duchesne River Formation. Total Dissolved Solids (TDS) are generally in the range of 500-1500 mg/l. There are seven domestic water wells and two surface rights within the Area of Review (AOR). Although depths are not specified for all wells, those which are specified range in depth from 120 feet to 500 feet. The water is used for domestic purposes, stock water, and irrigation.

As interpreted from Technical Publication No. 92, the base of moderately saline groundwater (3000-10,000 mg/l TDS) is estimated at a depth of approximately 600

feet in the Lawson 1-21A1 well. This is about 8000 feet above the proposed injection interval of 8642 to 8981 feet, in the middle portion of the Green River Formation.

The anticipated average injection pressure is 1500 psig. However, a step-rate test will be performed during recompletion to determine the fracture parting pressure of the Green River Formation through the proposed injection interval. Based on the results of the step-rate test, a final maximum pressure, which is below the fracture parting pressure, will be requested. This will ensure that injection will not initiate any new fractures or propagate existing fractures through the overlying strata or confining interval, which could enable the injected fluid or formation fluid to enter into fresh water formations. Any groundwater present should be adequately protected.

Update (11/03/2010): A step-rate test (SRT) was conducted on 6/01/2010. The injection test was pumped down 2-7/8" 6.5# N-80 tubing with a packer set at 8568' and a removable bridge plug set at 9020' . The SRT results indicate a parting pressure of 1813 psig. Based on a 10 percent reduction of the parting pressure (as a safety factor), we recommend that the maximum allowable injection pressure be limited to 1630 psig.

The application submitted by El Paso E & P includes standard laboratory water analyses of produced water from eight nearby wells in Duchesne and Uintah Counties. All eight wells, which are operated by El Paso, generate produced water associated with oil production from the Green River and Wasatch Formations. This produced water will be disposed in the Lawson 1-21A1 SWD. The water analyses show an average specific gravity of 1.011 (with a range of 1.005 to 1.025), an average TDS of 13,733 ppm (with a range of 8,085 ppm to 23,469 ppm), and an average pH of about 7.5 (with a range of 7.0 to 8.7).

Update (11/03/2010): Per DOGM′s request, water samples were collected from the proposed injection interval in the Lawson 1-21A1 well. Swab sample A, collected on 6/03/2010, following acid breakdown of perfs and the step-rate test, suggested a high degree of remaining acid disassociation and a lack of proper representation of the formation fluids. In order to obtain a representative water sample, a series of four additional swab samples (B-E) were collected from August 23-25. A stepwise decrease in TDS and a constant pH of 7.4 suggest that the final sample (E), with a TDS of 26,360 mg/L and a pH of 7.4, is a good representative sample of the formation fluid. A comingled sample was created by mixing samples from each of nine wells which are proposed to dispose into the Lawson 1-21A1 well. A chemical compatibility test was run between swab sample E and the comingled disposal water. It is concluded that there is not significant incompatibility between the two waters at formation temperatures. Both waters show a fairly high scaling tendency for calcite and barite, but it does not increase when the samples are combined, Produced water from the SWD well has a higher scale tendency than when it is combined with the composite sample. Scale precaution should utilize KCl flush water with scale inhibitor to serve as a protected buffer between the SWD connate water and injection water. A corrosion and bacteria control program for the SWD well may also be needed.

The proposed injection interval targets thin, high-porosity sandstone layers in a sand-rich interval near the base of the middle Green River Formation, above the regional TGR3 marker. A total of 21 intervals, ranging from 2 to 12 feet thick, are targeted for injection. Above the proposed injection interval, the middle Green River consists largely of extensive offshore, open-lacustrine oil shale deposits, primarily calcite, dolomite, silica, and kerogen.

A series of middle and upper Green River lacustrine, shale-rich intervals (8543′-8592′, 8329′-8442′, and 7960′-8257′ Mahogany Shale) provide an upper seal

for the injection zone and serve to protect the upper Green River gas production. Upper Green River gas production occurs at the crest of the Bluebell anticline, 3-6 miles northwest of the proposed injection well. The best gas producing intervals are several hundred feet above the Mahogany marker (652GRNT1). The lower confining zone consists of a regional lacustrine shale, from 8984′-9086′, at the base of the middle Green River, just above the TGR3 stratigraphic marker. The TGR3 marks the top of prospective oil and gas zones in the lower Green River. Several nearby recompletion tests in the middle Green River, above the TGR3, have proven uneconomic, due to poor quality of the oil.

As an attachment to the application, El Paso E & P includes a local structure contour map on the top of the lower Green River Formation (TGR3 marker). This map indicates that the Lawson 1-21A1 well is located near the axis of the Bluebell flexure, a gentle northwest plunging anticline. Along the Bluebell nose, at the Lawson well, the dip of strata is about 125 feet per mile to the northwest. Away from the Bluebell nose, the dips are more northerly, at about 250 feet per mile. No faults are indicated in the area.

El Paso E & P proposes the injection of produced waters from the Green River and Wasatch Formations in the Uinta Basin into the proposed injection interval in the middle Green River Formation in the Lawson 1-21A1 SWD well. Pursuant to review of the application and documentation submitted by El Paso, it appears that the injection should cause no diminution of the quality of the already generally poor quality water in the injection zone. After injection ceases, increased pressure around the wellbore will abate over time. No long term negative impacts to surface or ground water are anticipated as a result of the proposed injection operation.

Oil/Gas & Other Mineral Resources Protection:

Greater Altamont-Bluebell Field is the largest oil producing area in the Uinta Basin. Production is primarily from fractured Paleocene-Eocene lacustrine and fluvial deposits of the Green River and Wasatch (Colton) Formations. Depths of production are generally 10,500 to 13,000 feet (with some lesser production as shallow as about 8000 feet), with the most prolific reservoirs in over-pressured sandstones in the Colton Formation and underlying Flagstaff Limestone.

No other known potentially producible mineral or hydrocarbon zones are reported in the area. The well records of the Division document that there are no other wells within the 0.5 mile radius of the AOR.

Bonding:

El Paso Exploration & Production has a $120,000 blanket surety bond in place, which ensures plugging of this well.

Actions Taken and Further Approvals Needed:

Notice of this application was published in the Salt Lake Tribune and the Uintah Basin Standard. In addition, copies of the notice were provided to the Environmental Protection Agency (EPA), Region VIII, Uintah County Planning, and the Operator.

A properly designed and constructed water disposal well, combined with periodic mechanical integrity tests, poses no threat to fresh or useable groundwater supplies.

The Division staff recommends approval of this application contingent upon no additional or unforeseen information being presented that is relevant to this analysis or modifies the data presented herein.

Reviewer(s): Mark L. Reinbold Date: 11/3/2010

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET (for state use only)

ROUTING
CDW

X - Change of Operator (Well Sold) Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective: **6/1/2012**

FROM: (Old Operator):	**TO:** (New Operator):
N3065- El Paso E&P Company, L.P.	N3850- EP Energy E&P Company, L.P.
1001 Louisiana Street	1001 Louisiana Street
Houston, TX. 77002	Houston, TX. 77002
Phone: 1 (713) 997-5038	Phone: 1 (713) 997-5038

CA No. **Unit:** N/A

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
See Attached List								

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: 6/25/2012
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/25/2012
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 6/27/2012

4a. Is the new operator registered in the State of Utah: _____ Business Number: 2114377-0181

5a. (R649-9-2)Waste Management Plan has been received on: Yes

5b. Inspections of LA PA state/fee well sites complete on: N/A

5c. Reports current for Production/Disposition & Sundries on: 6/25/2012

6. **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 N/A BIA Not Received
7. **Federal and Indian Units:**
   The BLM or BIA has approved the successor of unit operator for wells listed on: N/A
8. **Federal and Indian Communization Agreements ("CA"):**
   The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
9. **Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to **Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 9/12/2012

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 9/24/2102
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 9/24/2012
3. Bond information entered in RBDMS on: 9/24/2012
4. Fee/State wells attached to bond in RBDMS on: 9/24/2012
5. Injection Projects to new operator in RBDMS on: 9/24/2012
6. Receipt of Acceptance of Drilling Procedures for APD/New on: N/A

BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: 103601420
2. Indian well(s) covered by Bond Number: 103601473

3a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 400JU0705

3b. The **FORMER** operator has requested a release of liability from their bond on: N/A

LEASE INTEREST OWNER NOTIFICATION:

4. (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 9/24/2012

COMMENTS:

Well Name	Sec	TWP	RNG	API Number	Enity Number	Lease	Well Tyoe	Well Status
UTE 1-14C6	14	030S	060W	4301330056	12354	Indian	WD	A
UTE TRIBAL 1-A	18	030S	060W	4301315122	99990	Fee	WD	A
LAKE FORK 2-23B4	23	020S	040W	4301330038	1970	Fee	WD	A
TEW 1-9B5	09	020S	050W	4301330121	1675	Fee	WD	A
RHOADES MOON 1-36B5	36	020S	050W	4301330289	4765	Fee	WD	A
G HANSON 2-4B3 SWD	04	020S	030W	4301330337	99990	Fee	WD	A
LDS CHURCH 2-27B5	27	020S	050W	4301330340	99990	Fee	WD	A
LINDSAY RUSSELL 2-32B4	32	020S	040W	4301330371	99996	Fee	WD	A
EHRICH 2-11B5	11	020S	050W	4301330391	99990	Fee	WD	A
LAWSON 1-21A1	21	010S	010W	4301330738	935	Fee	WI	A
DAVIS 1-33A1E	33	010S	010E	4304730384	805	Fee	WD	A
ALLRED 2-16A3	16	010S	030W	4301330361	99996	Fee	WD	I
BIRCH 2-35A5	35	010S	050W	4301330362	99996	Fee	WD	I

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NUMBER: Multiple Leases
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME:
8. WELL NAME and NUMBER: See Attached
9. API NUMBER:
10. FIELD AND POOL, OR WILDCAT: See Attached

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER
2. NAME OF OPERATOR: El Paso E&P Company, L.P. Attn: Maria Gomez
3. ADDRESS OF OPERATOR: 1001 Louisiana CITY Houston STATE TX ZIP 77002 PHONE NUMBER: (713) 997-5038
4. LOCATION OF WELL
FOOTAGES AT SURFACE: See Attached
COUNTY:
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
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 Name/Operator
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

Please be advised that El Paso E&P Company, L.P. (current Operator) has changed names to EP Energy E&P Company, L.P. (new Operator) effective June 1, 2012 and that EP Energy E&P Company, L.P. is considered the new operator of the attached well locations.

EP Energy E&P Company, L.P. is responsible under the terms and conditions of the lease(s) for the operations conducted upon leased lands. Bond coverage is provided by the State of Utah Statewide Blanket Bond No. 400JU0705, Bureau of Land Management Nationwide Bond No. 103601420, and Bureau of Indian Affairs Nationwide Bond No. 103601473.

Frank W. Falleri
Vice President
El Paso E&P Company, L.P.

Frank W. Falleri
Sr. Vice President
EP Energy E&P Company, L.P.

NAME (PLEASE PRINT) Maria S. Gomez TITLE Principal Regulatory Analyst
SIGNATURE Maria S. Gomez DATE 6/22/2012

(This space for State use only) APPROVED
SEP 24 2012
OIL GAS & MINING
Rachel Medina

RECEIVED
JUN 25 2012
DIV. OF OIL, GAS & MINING

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

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

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number	API Number
Lawson 1-21A1	4301330738
Location of Well	**Field or Unit Name**
Footage : 1546' FSL & 1516' FWL — County : Duchesne	Altamont/Bluebell
QQ, Section, Township, Range: NESW 21 1S 1W — State : UTAH	**Lease Designation and Number** Fee

EFFECTIVE DATE OF TRANSFER: 6/1/2012

CURRENT OPERATOR

Company: El Paso E&P Company, L.P.
Address: 1001 Louisiana
city Houston state TX zip 77002
Phone: (713) 997-5038
Comments:

Name: Maria S. Gomez
Signature: Maria S. Gomez
Title: Principal Regulatory Analyst
Date: 9/11/2012

NEW OPERATOR

Company: EP Energy E&P Company, L.P.
Address: 1001 Louisiana
city Houston state TX zip 77002
Phone: (713) 997-5038
Comments:

Name: Maria S. Gomez
Signature: Maria S. Gomez
Title: Principal Regulatory Analyst
Date: 9/11/2012

(This space for State use only)

Transfer approved by: [signature]
Title: UIC Geologist
Approval Date: 9/19/2012

Comments:

RECEIVED
SEP 12 2012
DIV. OF OIL, GAS & MINING

(5/2000)

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: FEE

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:

1. TYPE OF WELL: Water Injection Well

8. WELL NAME and NUMBER: LAWSON 1-21A1

2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.

9. API NUMBER: 43013307380000

3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002
PHONE NUMBER: 713 997-5038 Ext

9. FIELD and POOL or WILDCAT: BLUEBELL

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1546 FSL 1516 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 21 Township: 01.0S Range: 01.0W Meridian: U

COUNTY: DUCHESNE

STATE: UTAH

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

TYPE OF SUBMISSION

- [x] NOTICE OF INTENT
  Approximate date work will start: 6/4/2013
- [ ] SUBSEQUENT REPORT
  Date of Work Completion:
- [ ] SPUD REPORT
  Date of Spud:
- [ ] DRILLING REPORT
  Report Date:

TYPE OF ACTION

[x] ACIDIZE	[ ] ALTER CASING	[ ] CASING REPAIR
[ ] CHANGE TO PREVIOUS PLANS	[ ] CHANGE TUBING	[ ] CHANGE WELL NAME
[ ] CHANGE WELL STATUS	[ ] COMMINGLE PRODUCING FORMATIONS	[ ] CONVERT WELL TYPE
[ ] 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:

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

EP plans to pump 5000 gals of 15% HCL down tubing at pressure of 2000 psi. Displace acid with 55 bbls KCL. Reconnect disposal lines and put well back on injection.

Approved by the Utah Division of Oil, Gas and Mining

Date: June 04, 2013

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Maria S. Gomez	713 997-5038	Principal Regulatory Analyst

SIGNATURE	DATE
N/A	6/4/2013

RECEIVED: Jun. 04, 2013

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43013307380000

Surface pressure should be limited to approved injection pressure of 1700 psi.

RECEIVED: Jun. 04, 2013