

10-26-77 - approval given to convert to
Salt Water Disposal Well.

Belco Petroleum Corp.

FILE NOTATIONS

Entered in NID File	<input checked="" type="checkbox"/>	Checked by Chief	_____
Entered On S R Sheet	_____	Copy NID to Field Office	<input checked="" type="checkbox"/>
Location Map Pinned	_____	Approval Letter	<input checked="" type="checkbox"/>
Card Indexed	<input checked="" type="checkbox"/>	Disapproval Letter	_____
IWR for State or Fee Land	_____		

COMPLETION DATA:

Date Well Completed	<u>4-9-61</u>	Location Inspected	_____
OW <input checked="" type="checkbox"/> WW _____ TA _____		Bond released	_____
GW _____ OS _____ PA _____		State of Fee Land	_____

LOGS FILED

Driller's Log

Electric Logs (No.) 4

E _____ I _____ E-I _____ GR _____ GR-N 2 Micro _____

Lat GC 2 Mi-L _____ Sonic 2 Others Temperature 2

Re-Work - Pure Oil Company

FILE NOTATIONS

Entered in NID File	_____	Checked by Chief	_____
Entered On S R Sheet	_____	Copy NID to Field Office	_____
Location Map Pinned	_____	Approval Letter	_____
Card Indexed	_____	Disapproval Letter	_____
IWR for State or Fee Land	_____		

COMPLETION DATA:

Date Well Completed	<u>12-6-62</u>	Location Inspected	_____
OW <input checked="" type="checkbox"/> WW _____ TA _____		Bond released	_____
GW _____ OS _____ PA _____		State of Fee Land	_____

LOGS FILED

Driller's Log 12-10-63 *Completion report*

Electric Logs (No.) _____

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

Lat _____ Mi-L _____ Sonic _____ Others _____

BELCO PETROLEUM CORPORATION

P. O. BOX 302- 774 BIG PINEY, WYOMING

TELEPHONES: ~~5121~~
~~5131~~ CH 3-0682

Grand Junction, Colorado

January 30, 1961

Utah Oil & Gas Conservation Commission
310 Newhouse Building, 10 Exchange Place
Salt Lake City 11, Utah

Gentlemen:

We are requesting permission to drill a well 2250' north of the south line and 1860' east of the west line of Sec. 16, T 30 S, R 24 E, San Juan County, Utah.

This well would be the required well for the drilling unit comprising the west one-half of Sec. 16. Since the Belco State #2 well is in the northeast quarter of the northeast quarter of Sec. 16, a well in the southwest quarter of Sec. 16 would be the logical location.

This southwest quarter is very rough, and the above location is the only place we can drill. This location is 780' west of the north-south quarter line and 390' south of the east-west quarter line and falls in a drainage, the remainder of the area being solid rock.

We have discussed the above location with Elliott, Incorporated, who hold leases on Sec. 21, 17 and the west half of Sec. 9, and they have no objection to the location. A copy of this letter is also being sent to Quintana, who hold leases on the west half of the east half of Sec. 9.

Anticipated spud date is February 10, 1960.

Yours very truly,

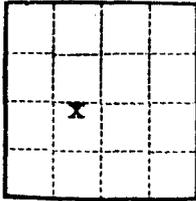
BELCO PETROLEUM CORPORATION


A. Frisch, District Engineer

AF:gl

cc: Elliott, Inc., Roswell, New Mexico
Quintana Petroleum Corp., Houston, Texas

*Standard and
Chatterton*



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office State
Lease No. ML-8366
Unit _____

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

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

January 30, 1961

Belco State

Well No. 4 is located 2250 ft. from N line and 1860 ft. from E line of sec. 16
SE/4 Sec. 16 30 S 24 E Salt Lake
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
N. W. Lisbon San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is _____ ft. - to follow.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

We propose to drill a well on the above location to test the Mississippian formation. Expected Top Mississippian - 8600'. Total Depth 9100'.

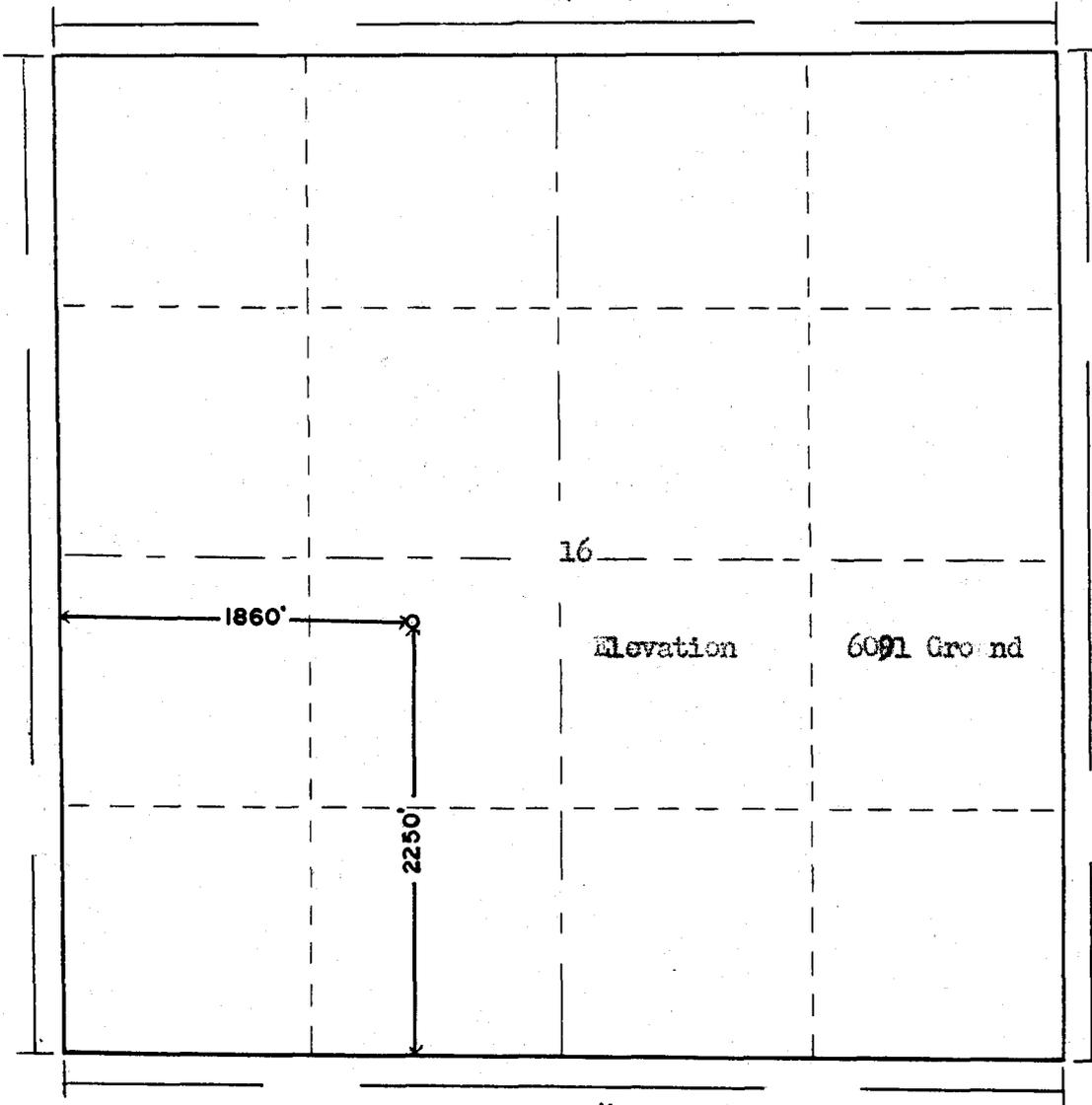
Conductor pipe will be set, and approximately 2000' of 9-5/8" 36# J-55 Surface Casing will be set and cemented to surface. An 8-3/4" hole will be drilled and an engineered string of 5-1/2" or 7" casing will be run. Sufficient cement will be used to cover the Salt section.

Anticipated spud date: February 10, 1961.

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

Company BELCO PETROLEUM CORPORATION
Address P. O. Box 774
Grand Junction, Colorado
By A. Frisch
Title District Engineer

R. 24 E.



T. 30 S.

Scale ... 1" = 1000'

Powers Elevation Company of Denver, Colorado
 has in accordance with a request from Mr. Bob Royce
 for Delco Petroleum Corporation determined the
 Location of #14 State
 to be 2250' FS & 1860' FW Section 16 Township 30 South
 Range 24 East 6th Principal Meridian
 San Juan County, Utah

The above Plat shows the location of the well site
 in said section.

Powers Elevation Company

by:

Lawrence R. Chrusman
 Registered Land Surveyor

Date: 1-27-61

February 2, 1961

Belco Petroleum Corporation
P. O. Box 774
Grand Junction, Colorado

Attn: A. Frisch, Dist. Eng.

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Belco State 4, which is to be located 2250 feet from the south line and 1860 feet from the west line of Section 16, Township 30 South, Range 24 East, SLBM, San Juan County, Utah.

Please be advised that approval to drill said well on said unorthodox location is hereby granted in accordance with the Order issued in Causes Nos. 32, 33, and 46, on January 10, 1961.

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

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

C. B. FEIGHT, Executive Secretary
Office Phone: DA 8-5771 or DA 8-5772
Home Phone: HU 5-2721

Beico Petroleum Corp.
Attn: A. Frisch, Dist. Eng.

February 2, 1961
Page -2-

ROBERT L. SCHMIDT, Chief Petroleum Engineer
Office Phone: DA 8-5771 or DA 8-5772
Home Phone: AM 6-8616

Please address all other forms of communication to the Oil and Gas Conservation Commission at 310 Newhouse Building, 10 Exchange Place, Salt Lake City 11, Utah.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FREIGHT,
EXECUTIVE SECRETARY

CBF:avg

cc: Utah State Land Board
Salt Lake City, Utah

H. L. Coonts - OGCC, Moab



**STANDARD OIL COMPANY OF CALIFORNIA,
WESTERN OPERATIONS, INC.**

P. O. BOX 455 • VERNAL • UTAH

PRODUCING DEPARTMENT
C. V. CHATTERTON
DISTRICT SUPERINTENDENT

February 3, 1961

PROPOSED LOCATION
BELCO PETROLEUM CORPORATION
N. W. LISBON FIELD
SAN JUAN COUNTY, UTAH

Utah Oil and Gas Conservation Commission
310 Newhouse Building
10 Exchange Place
Salt Lake City 11, Utah

Gentlemen:

Refer to copy of Belco Petroleum Corporation's letter dated January 30, 1961, requesting your approval to drill a well 2250' North and 1860' East of the Southwest corner Section 16, T30S, R24E, and telephone conversation Feight - Hull February 2, 1961.

We have no objection to Belco drilling a well at above location.

Yours truly,

C. V. CHATTERTON

Elliott, Inc.

Box 5669 - Phone MAin 2-5840

Roswell, New Mexico

February 3, 1961

H. H. Elliott
President

Edna M. Elliott
Sec'y-Treas.

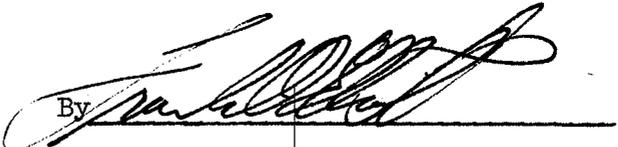
Utah Oil & Gas Conservation Commission
310 Newhouse Building, 10 Exchange Place
Salt Lake City 11, Utah

Gentlemen:

We have received notification from Belco Petroleum Corporation of their desire to drill a well, located 2250' north of the south line and 1860' east of the west line of Sec. 16, Twp. 30S., Rge. 24E., San Juan County, Utah. Please be advised that we have no objection to the well being located at the location as above stated.

Very truly yours,

ELLIOTT, INC.

By 

FOE/nc

Aug

BELCO PETROLEUM

CORPORATION

P. O. BOX 302 774 ~~SIO-FINEST WYOMING~~

TELEPHONES: ~~540~~
~~5131~~ CH 3-0682

Grand Junction, Colorado

February 13, 1961

Re: Notice of Intention
Belco State #4

U. S. Geological Survey
350 South Main
457 Federal Building
Salt Lake City, Utah

Attention: Mr. D. F. Russell

Gentlemen:

The footage location as given on Belco State #4 is correct, however, it gives the location as SE 1/4 Sec. 16. Will you please correct your copy to read SW 1/4 Sec. 16.

I am sorry for this error and hope it has not inconvenienced you.

Very truly yours,

BELCO PETROLEUM CORPORATION

A. Frisch

A. Frisch
District Engineer

AF:gl

cc: Mr. Jack Saltz - NY
Utah OGCC ✓

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE _____
LEASE NUMBER EL-5366
UNIT _____

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County San Juan Field N. W. Lisbon

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

Agent's address P. O. Box 774 Company HELCO PETROLEUM CORPORATION
Grand Junction, Colorado ORIGINAL SIGNED BY _____

Phone OH 3-0082 Signed A. FRISCH
Agent's title District Engineer

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NE 50-10	300	24E	1							Spudded 2-12-61. Drld. 11" hole to 2016' & ran 8-5/8" 2 1/2" J-55 Cag. to 2015' & cnt. w/510 ex. on 2-19-61. Drig. # 4115' on 3-1-61 w/7-7/8" hole.

cc: USGS - 2
WOGCC - 2
ABB - 1
DCB - 1
Larsen - 1

NOTE.—There were no runs or sales of oil; no M cu. ft. of gas sold;

no runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

State Utah
LAND OFFICE 1-8366
LEASE NUMBER _____
UNIT _____

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County San Juan Field N. W. Lisbon

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

Agent's address P. O. Box 774 Company REDDO PETROLEUM CORPORATION
Grand Junction, Colorado Signed R. L. Lundquist

Phone CH 3-0682 Agent's title District Superintendent

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NE SW 1/4	16	T 30 S	R 24 E							TD 8730'. Running logs.
cc: UGGS	-	2	DCB	-	1					
UGGC	-	2	Larsen	-	1					
ABB	-	1	Caloil	-	1					

NOTE.—There were no runs or sales of oil; no M cu. ft. of gas sold;

no runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office State
Lease No. SL-8366
Unit _____

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....
NOTICE OF INTENTION TO ABANDON WELL.....	<u>Subsequent report on Surf. Casing. X</u>

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

April 20, 1961

Belco State

Well No. 4 is located 2250 ft. from NT line and 1860 ft. from EW line of sec. 16
SW 1/4 Sec. 16 30 S 2h E Salt Lake
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
N. W. Lisbon San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6095 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

The above well was spudded on 2-12-61 and a 11" hole was drilled to 2016'. Surface casing consisting of 2005' of 8-5/8" 2h J-55 was set at 2015' and cemented with 410 sacks 50-50 pozzol w/1/2 gal and 25 NA-5 and 100 sacks regular w/25 NA-5.

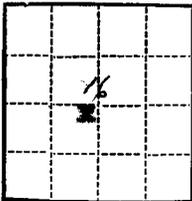
After waiting on cement for 2h hrs., the casing was tested to 800 psi for 30 min. A 7-7/8" hole was drilled below surface casing.

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

Company BELCO PETROLEUM CORPORATION
 Address P. O. Box 774
Grand Junction, Colo.
 ORIGINAL SIGNED BY
 By A. Frisch
 Title District Engineer

Copy to HC

R 22



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office State
Lease No. SL-8366
Unit _____

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	X
NOTICE OF INTENTION TO ABANDON WELL.....		

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

April 20, 1961

Utah State
Well No. 4 is located 2250 ft. from N line and 1860 ft. from E line of sec. 16
SW 1/4 Sec. 16 30 S 24 E Salt Lake
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
H. W. Lisbon San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6095 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

See attached sheet.

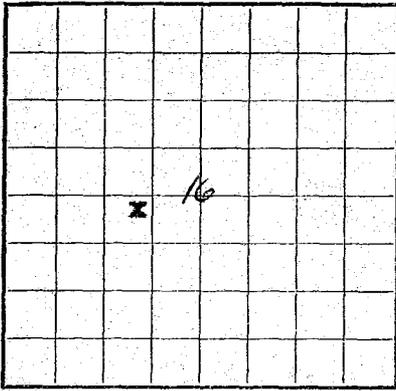
I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company BELOO PETROLEUM CORPORATION
Address P. O. Box 774
Grand Junction, Colorado
By A. Frisch
Title District Engineer

ORIGINAL SIGNED BY
A. FRISCH

Handwritten initials

U. S. LAND OFFICE State
SERIAL NUMBER ML-8366
LEASE OR PERMIT TO PROSPECT _____



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company HALCO PETROLEUM CORPORATION Address P. O. Box 774, Grand Junction, Colo.
Lessor or Tract State Field N.W. Lisbon State Utah
Well No. 4 Sec. 16 T. 30S R. 24E Meridian Salt Lake County San Juan
Location 2250 ft. $\left\{ \begin{matrix} N. \\ S. \end{matrix} \right\}$ of S Line and 1860 ft. $\left\{ \begin{matrix} E. \\ W. \end{matrix} \right\}$ of W Line of Sec. 16 Elevation 6095'
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed _____ Title District Engineer
Date April 20, 1961

The summary on this page is for the condition of the well at above date.

Commenced drilling Feb. 12, 19 61 Finished drilling March 30, 19 61

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 8376' to 8650' No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From-	To-	
<u>8-5/8"</u>	<u>24</u>	<u>8R</u>	<u>CP&I</u>	<u>200'</u>	<u>Guide</u>				<u>Surface</u>
<u>5-1/2"</u>	<u>17</u>	<u>8R</u>	<u>CP&I</u>	<u>8716'</u>	<u>Guide</u>		<u>8461'</u>	<u>8505'</u>	<u>Prod.</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8-5/8"</u>	<u>2015'</u>	<u>510</u>	<u>Pump & Plug</u>		
<u>5-1/2"</u>	<u>8727'</u>	<u>1125'</u>	<u>Pump & Plug</u>		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Depth	Remarks

FOLD MARK

MUDDING AND CEMENTING RECORD

FOLD MARK

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	2015'	510	Pump & Plug		
5-1/2"	8727'	1125'	Pump & Plug		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
 Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from 0 feet to 3730 feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

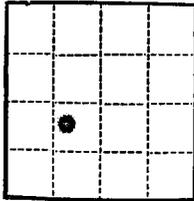
April 20 _____, 1961 Put to producing April 9 _____, 1961
 The production for the first 24 hours was 346 barrels of fluid of which 99.8% was oil; 0.2% emulsion; _____% water; and _____% sediment. Gravity, °Be 53° API
 If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
 Rock pressure, lbs. per sq. in. _____

EMPLOYEES

C. C. Hale _____, Driller L. A. Norton _____, Driller
 G. M. Taylor _____, Driller Calvert Drilling Co., _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0'	3650'	3650'	No samples described.
3650'	5215'	1565'	<u>Hermosa?</u> Ls, lt gy-olv-tan, hd, dns, plty, crpxl in most/intbd sh, brn-gy, slty, sdy, mica, carb, calc, in most.
5215'	5533'	318'	<u>Paradox</u> Ls, as abv 1565'/intbd sh, blk, v carb, fra, slty, calc.
5533'	8212'	2679'	<u>Salt</u> C-mxl, wh-gy-tan/intbd sh, blk, slty, carb, non-calc in most.
8212'	8356'	144'	<u>Lower Hermosa</u> Sh, blk, hd, sl calc, dns, fis/mnr intbd ls, tan-gy, fvxl-crpxl, hd, dns.
8356'	8376'	20'	<u>Molas</u> Sh, blk-gy-gn-rd, mot, hd, dns, wxy, non-calc, brec in most/v mnr ls.
8376'	8730' TD	354'	<u>Mississippian</u> Ls, tan-gy, fxl-crpxl-oxl, hd, fra, ooc brec/sh/intbd, dol, brn-gy, suc-vixl, hd, p-excellent vuggy por & frac/gd petroleum shows.



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake
Lease No. ML 8366
Unit Lisbon

Sec. 16

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....		SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
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NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	X
NOTICE OF INTENTION TO ABANDON WELL.....			

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

June 18, 19 62

Lisbon Unit

Well No. B-816 is located 2250 ft. from N line and 1860 ft. from W line of sec. 16

NE SW Sec. 16

(¼ Sec. and Sec. No.)

Lisbon

(Field)

308

(Twp.)

24E

(Range)

San Juan

(County or Subdivision)

SLM

(Meridian)

Utah

(State or Territory)

The elevation of the derrick floor above sea level is ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Well designation changed due to unitization of Lisbon Field effective 5/1/62.

OLD DESIGNATION

Belec State No. 4

NEW DESIGNATION

Lisbon Unit #B-816

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

Company THE PURE OIL COMPANY

Address P. O. Box 265

Moab, Utah

Alpine 3-3581

By L. K. Connor
L. K. Connor
Office Manager
Title _____

BELCO STATE #4
Sec. 16, T. 30 S, R 24 E
San Juan County, Utah

WELL HISTORY

The above well was spudded on 2-12-61 and 8-5/8" 24# J-55 casing was set at 2015' and cemented with 510 sacks cement on 2-19-61.

A 7-7/8" hole was drilled below surface casing to 8463'. The interval from 8463' to 8696' was cored, where the hole size was reduced to 7-5/8" and the hole drilled to a total depth of 8730'.

During the course of drilling, the following D.S.T.'s were taken:

	DST #1	DST #2
Date	3-18-61	3-29-61
Interval	8227-8320'	8651-8696'
IH	4605	4559
ISI	80/45 min.	3009/45 min.
IF	21	235
FF	21/60 min.	1569/120 min.
FSI	40/35 min.	2989/120 min.
REC.	10' Drlg. Mud	360' GC Muddy Salt Wtr.
TEMP.		3390' GC Salt Wtr. 192°

Gamma-ray Sonic-Caliper and Laterologs were run to total depth. A dipmeter and directional log was also run.

Production casing consisting of 278 jts. of 5-1/2" J-55 and N-80 Casing was landed at 8277.38' KB and cemented - 125 sacks of regular salt-saturated cement w/2% gel and 1/4# Floseal/sack was used on the bottom stage and 1000 cu. ft. of 40% Diesel, 84% salt-saturated cement w/1/4# Floseal/sack was pumped through a stage collar at 8277.81'.

Ran Temperature log which showed cement top at 5000'. Drilled out stage collar and displaced mud w/diesel. Set Baker Model "D" Packer @ 8370' and ran 2" tubing in packer.

Perforated 8461-8505' w/4 jets/ft. Had trouble getting jets to shoot and left debris in tubing. Swabbed down w/small amount of oil and gas coming into well bore.

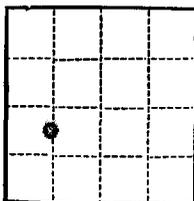
Acidized w/1000 gal. breakdown acid. Formation broke at 3500 psi and displaced acid w/160-200 psi. Well began flowing after two swab runs. Produced 321 bbls. oil in 21 hrs. on 28/64" choke.

Released rig on April 8, 1961.

Acidized on April 15, 1961, w/5000 gal. gelled acid, 1000 gal. breakdown acid and 250# mothballs. Formation broke from 5000 psi to 3800 psi. Swabbed down to 4000' and well began flowing. Well flowed 554.31 bbls. in 24 hrs. through 28/64" choke w/500 psi tubing pressure. GCR 1603, Gravity 55.6 @ 88°.

cm
F. M. ...
E

Form 9-381a
(Feb. 1961)



Sec. 16

Copy H. L. C.
(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R358.4
Approval expires 12-31-60.

Land Office Salt Lake City
Lease No. Utah ML 8366
Unit Lisbon Unit

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....		SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	X	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

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

November 15, 1962

Lisbon Unit
Well No. B-816 is located 2250 ft. from XI^N_S line and 1860 ft. from XXX^E_W line of sec. 16

NE SW Sec. 16 30S 24E S. 1. N. M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Lisbon San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the ~~center~~ ^{ground} floor above sea level is 6081 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Well originally drilled by Belco Petroleum Corp. as Belco State No. 4.
TD 8730' - PBTD 8690'.

Propose to rework well as follows:

Kill well, drill Baker Model "D" packer at 8,370', run Correlation log, perforate additional perforations from approximately 8,550' to 8,564', set retrievable packer between 8,505' and 8,550', acidize new perforations with 3,000 gallons, reset packer above perforations 8,461-8,505, swab well in and test.

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

Company THE PURE OIL COMPANY

Address P. O. Box 1338
Moab, Utah
253-3581

By L. K. Coggan
L. K. Coggan
Title District Office Manager

Form approved
 Budget Bureau No. 42-2334A
 Land Office Salt Lake City
 Lease Number Utah ML 8366
 Unit Lisbon Unit

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County San Juan Field Lisbon

The following is a correct report of operations and production (including drilling and producing wells) for the month of November, 19 62

Agent's address P. O. Box 1338 Company THE PURE OIL COMPANY
Moab, Utah Signed [Signature]
 Phone 253-3581 Agent's title District Office Manager

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	Days Produced	Bbls. of Oil	Gravity	Cu. Ft. of Gas (In Thou.)	Gal. of Gasoline Recovered	Bbls. of Water (If none, state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NE SW Sec. 16 Lisbon Unit B-816	30S	24E								<p>Continued</p> <p>McCullough ran Gamma Ray Neutron log from 8350' to 8640'. McCullough perforated with 1/4 - 18 gram Mac-jet shots per foot from 8550' to 8564'. Halliburton acidized perforations from 8550' to 8564'. Set packer at 8519', tail pipe at 8556'. Spotted 3,000 gals. of low tension non-emulsifying 15% acid on formation. Formation broke at 3800#, broke back to 3300#. Gradual decrease to 3100#. When 2100 gals. of acid was in formation, communication was established between new perforations and the old perforations. Flushed with 3/4 bbls. of fresh water, putting all acid into formation. Shut well in. 0# pressure on annulus and tubing after 15 minute shut in. Well started flowing back from both annulus and tubing. B & R set plug in tubing at 240'. Pulled up and set packer at 8434' with 14,000#. Set tail pipe at 8472'. Removed BOP's and flanged up tree. B & R, in trying to remove plug from tubing, lost same and chased it to 8650'. Shut well in and released rig at 6:00 p.m. 11-28-62. Started swabbing well at 12:00 noon 11-30-62. Fluid level at 1200'. Swabbed well down to 2000'. Made 16 runs from 3500'. Top of fluid remained at 2000'. Well kicked off after 16 runs. Cleaned to pit on 1" choke. Tubing pressure 200#. Cut choke to 32/64" at 8:00 a.m. 12-1-62. Tubing pressure 300#. Well cleaned up and shut well in at 12:00 noon 12-1-62. Well shut in until 12-6-62 when testing was started. On 12-7-62 well flowed 2 1/2 hours on 25/64" choke. Produced 492 bbls. of oil, 8 bbls. of load water, with a GOR of 1464 to 1. Tubing pressure 540#, with back pressure on separator of 420#.</p>

Note—There were _____ runs or sales of oil; _____ M cu. ft. of gas sold;

_____ runs or sales of gasoline during the month. (Write "no" where applicable.)

Note—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Copy H.L.C.

PMB

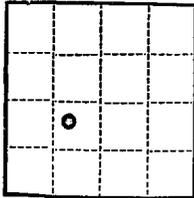
(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake City

Lease No. Utah ML 8366

Unit Lisbon Unit



Sec. 16

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	X
NOTICE OF INTENTION TO ABANDON WELL.....		

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

December 7, 1962

Lisbon Unit
Well No. B-816 is located 2250 ft. from N line and 1860 ft. from W line of sec. 16

NE SW Sec. 16 (¼ Sec. and Sec. No.) 30S (Twp.) 24E (Range) S.L.M. (Meridian)

Lisbon (Field) San Juan (County or Subdivision) Utah (State or Territory)

The elevation of the ~~surface~~ ^{ground} above sea level is 6084 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

SEE SUPPLEMENTAL SHEETS ATTACHED

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

Company THE PURE OIL COMPANY

Address P.O. Box 1338

Moab, Utah

253-3581

Signature of J. B. Strong

By J. B. Strong
Title Senior District Clerk

SUNDRY NOTICES AND REPORTS ON WELLS

Supplementary Well History
December 7, 1962

Lisbon Unit B-816
2250' FSL and 1860' FWL
Sec. 16, 30S, 24E
San Juan County, Utah

11-22-62 Calvert Exploration Co. broke tour at 8:00 a.m. Halliburton killed well with 30 bbls. of salt water; maximum pressure 1200#. Well went on vacuum.

Removed tree. Screwed into tubing hanger. Free travel, 30,000# to 40,000#. Picked up at 40,000#. Tried to rotate tubing to the right - 15 rounds of torque. Recovered all 15 rounds. Unable to rotate tubing. Pulled on tubing, up to 71,000# on indicator while pulling tubing 45' up hole. Annulus remained full while pulling tubing. Hole did not swab - fluid level in annulus remained constant. Unable to get tubing back down hole. Laid down one joint; then set pack-off back down with same weight as before.

Baker engineer arrived on location. Tried to rotate tubing. 25 rounds of torque. Recovered all 25 rounds. Unable to get loose from packer.

Due to insufficient well records, shut down for night in order to check with Balco Petroleum, in event there was something in "string" of which we had no knowledge. Installed tree and shut well in at 3:00 p.m.

At 11:00 p.m. well blew packing nut and pack-off screw out of flange below all valves. Well was loose. Crew shut down all engines.

11-23-62 Strung chains and cables across location and pulled Halliburton pump truck off location. Laid lines from well head to pump truck. Pumped salt water down well, killing same. Well was blowing out from 11:00 p.m. 11-22-62 until 3:30 a.m. 11-23-62. Well on vacuum.

Had to pump 10 bbls. of salt water every 15 minutes to keep well from gassing while awaiting arrival of new plug from Farmington, New Mexico. Installed new plug at 7:00 a.m. 11-23-62. Well under control.

Pumped a total of 220 bbls. of salt water into well during blowout. Shut well in to clean oil off rig and location. Two and one-half hours after shutting in well, tubing had 1,000# pressure at surface.

Dowell ran 500 gallons of Jel X-820 (good for 6 days) blocking agent. Displaced with 36-1/2 bbls. of water - 2 bbls. overflush. Maximum pressure 2,200#. After shutting down, well went on vacuum. Job complete at 8:00 p.m.

Schlumberger ran 1-11/16" OD collar locator to 8057'. Unable to get below that depth. Fluid level at 4,500'. Six hours after pumping Jel X-820 tried to load hole. Unable to do so.

11-24-62 Dowell being out of chemicals, called on Halliburton for blocking agent. Halliburton mixed 250 gals. "Temp-Bloc". Had 23 bbls. flush in tubing when Temp-bloc set up. Unable to pump Temp-Bloc out of tubing. Maximum pressure 5,000#. Top of Temp-Bloc at 5900'. Job completed at 8:40 a.m. 11-24-62.

Removed tree. Installed BOP's. Pressured up on BOP's to check same. BOP body was cut out. BOP would not hold. Removed BOP's and installed tree. Shut well in at 2:00 p.m. 11-24-62 to await new BOP's.

11-25-62 New BOP's arrived on location at 4:30 a.m. 11-25-62. Assembled same.

At 8:00 a.m. Halliburton pumped 32 bbls. of water in tubing. Pumped 9 bbls. before catching fluid. Tubing cleared of blocking agent.

Removed tree. Installed BOP's. Pressured up on BOP's to 1050#. O.K.

At 11:00 a.m. pulled packoff. Put 15 rounds of torque (turning to right) in tubing. Worked ipipe up and down holding torque. When released, would get all 15 rounds of torque back. This procedure was followed numerous times with no results.

McCullough ran 1-3/8" OD collar locator to 8,517'. Bottom of tail pipe checked at 8,375'. Bottom of packer 8,370'. Top of Baker Model "D" seal assembly at 8,366'. Perforations checked out - 8,461' to 8,505'.

Rigged up to run free point. Well came in. Pumped 30 bbls. salt water down tubing. Killed well.

McCullough ran 1-1/8" OD magnetector to free point tubing. Toolshorted out at 4,700'.

Picked up 1-3/4" OD magnetector. Ran it down to 8,366', top of packer. Pipe free on stretch. With 25 rounds of torque, instrument indicated 3 rounds of torque at top of packer. Still unable to back out of packer.

Ran 140 gram string shot set at 8,366'. Put 25 rounds of torque in pipe and fired shot. Pipe came loose.

Pulled 264 jts. 2-3/8" OD tubing, seal assembly and production tube. Top part of inside of Model "D" came out with slips. Out of hole at 6:30 a.m. 11-26-62. Recovered a total of 265 jts. of 2-3/8" OD tubing (This included the joint laid down at start of job).

11-26-62 Picked up drill collars, Baker milling tool and junk sub. When on bottom Contractor found he had no Kelly bushings. Rig shut down from 11:15 a.m. until 1:00 p.m. waiting on bushings.

Milled slips off of packer. Pulled packer loose. Trip out of hole. Did not have packer. Trip back in hole with mill and catcher. Milled one hour and 45 minutes. Packer fell free. Trip out of hole. Catcher failed to catch packer.

11-27-62 Ran 4-3/4" bit and Baker casing scraper. At that time able to circulate hole. Formation taking fluid very slowly. Estimated water in formation 5,000 bbls. Cleaned out hole to 8,650'. Pushed junk ahead of bit. Pulled out of hole. Laid down tubing in preparation to pick up new string of tubing.

Picked up Baker Model "R" packer with 1 joint 2-3/8" tubing (open-ended) as tail joint and 268 joints of 2-3/8" tubing. Ran tubing to 8,461'. Did not set packer.

McCullough ran Gamma Ray Neutron Log from 8,350' to 8,640'.

11-28-62 McCullough perforated with 18 gram Mac-jets (4 shots per foot) 8,550' to 8,564'. Checked perforations with collar locator. Set packer at 8,519'. Set tailpipe at 8,556'.

Halliburton acidized with 3,000 gallons of low tension- non-emulsifying 15% acid through perfs 8,550' to 8,564'. Spotted acid on formation. Formation broke at 3,800#, back to 3,300#. Had gradual decrease to 3100# until 2,000 gallons of acid was in formation at which time hole started circulating. Believe acid worked up along outside of pipe to top perforations.

Closed rams and pumped acid into formation. Total flush - 3 1/2 bbls. of fresh water. Well flowed back on annulus and tubing.

B & R Wireline Service set plug 240' down in tubing.

Pulled up. Set packer at 8,434' KB. Tailpipe set at 8,472' KB. Packer set with 14,000#. Removed BOP's and installed tree. B & R tried to removed plug. Lost same. Chased to 8,650'. Unable to recover. Shut well in.

Released rig at 6:00 p.m. 11-28-62.

11-29-62 Rigged down. Moved rig off of location. Laid flow line to pit.

11-30-62 Swabbing unit arrived on location at 8:00 a.m. Rigged up. Ran swab. Fluid level at 1,200'. Swabbed fluid down to 2,000'. Made a total of 16 runs from 3,500'. Fluid top remained at 2,000'. Well kicked off after 16th run at 5:30 p.m. 11-30-62. Flowed well topit on 1" choke. Tubing pressure 100# to 200#. Well unloading water. Estimated flow 75% water.

12- 1-62 At 5:00 a.m. well flowing at 200# tubing pressure. Oil and gas increasing, water decreasing. At 8:00 a.m. well making 90% oil and gas. Pinched well to 32/64" choke. Tubing pressure 300#. Well cleaned up at 12:00 noon and shut well in.

Well shut in waiting on testing equipment until 12-5-62 when testing was started.

12- 6-62 Well flowed 24 hours on 25/64" choke. Produced 485 bbls. of oil and 18 bbls. of load water. Tubing pressure 500# with back pressure on separator of 400#.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

SL Utah ML 8366

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Lisbon Unit

8. FARM OR LEASE NAME

9. WELL NO.

Lisbon Unit B-816

10. FIELD AND POOL, OR WILDCAT

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

Sec. 16, T-30S, R-24E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

THE PURE OIL COMPANY

3. ADDRESS OF OPERATOR

P. O. Box 1611 - Casper, Wyoming

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

At surface

2250' FSL and 1860' FSL, NE SW

14. PERMIT NO.

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

GR 6084'

16.

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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

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

The following remedial work is proposed:

Perforate additional zone 8,587'-97' below perms and test. If water free, acidize. This best zone of porosity should be opened to obtain maximum productivity.

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

ORIGINAL SIGNED BY

SIGNED

R. E. DAVIS

TITLE

District Office Manager

DATE

Jan. 6, 1964

R. E. Davis

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

SL Utah ML 8366

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

7. UNIT AGREEMENT NAME

Lisbon Unit

8. FARM OR LEASE NAME

9. WELL NO.

Lisbon Unit B-816

10. FIELD AND POOL, OR WILDCAT

Mississippian

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

Sec. 16, T-30S, R-24E

12. COUNTY OR PARISH

San Juan

Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
The Pure Oil Company

3. ADDRESS OF OPERATOR
P. O. Box 1611 - Casper, Wyoming

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

2250' FSL and 1860' FWL, NE SW

14. PERMIT NO.

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

GR 6084'

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

Supplementary Well History

(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.)*

2-3-64: McCullough perforated with 12 gram Kleen jet shots, 4 shots per foot, from 8587' to 8597'.

Perforated down tubing.

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

ORIGINAL SIGNED BY

SIGNED **R. E. DAVIS**

TITLE **District Office Manager**

DATE **2-11-64**

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

UNITED STATES

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved
Budget Bureau No. 42-28855
Land Office Salt Lake
Lease Number SL Utah ML 8366
Unit Lisbon Unit

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County San Juan Field Lisbon Unit

The following is a correct report of operations and production (including drilling and producing wells) for the month of August 19 64.

Agent's address P. O. Box 1611 Company The Pure Oil Company

Casper, Wyoming Signed R. E. Davis

Phone 234-1565 Agent's Title District Office Manager

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	Days Produced	Bbls. of Oil	Gravity	Cu ft. of Gas (in Thousands)	Gal. of Gasoline Recovered (If None so state)	Ebbs. of Water (If None so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NE SW Sec. 16 Lisbon Unit	30S	24E B-816								<p>On August 24, 1964, Barker Well Service moved in, rigged up and killed well. Worked packer loose and pulled tubing. Top 3,000' of tubing string heavily coated with paraffin.</p> <p>Ran Baker retrievable bridge plug and Baker Model R-2 packer on 2-3/8" tubing. Bridge plug set at 8,526' KB. Released from bridge plug, laid down 3 joints of 2-3/8" tubing. Set Baker R-2 packer at 8,427' KB with 10,000#. Swabbed perforations 8,461' - 8,505'. Swabbed gas and load water. Shut well in for night.</p> <p>Tubing pressure after being shut in overnight was 220#. Turned well to pit. Making gas cut oil and water, estimated 50% oil and 50% water. Cleaned to pit 6 hours. Gas and oil increasing very slightly. Turned well to tank. Well head pressure increased from 100# to 150#. In 17 hours, well produced 150 bbls. of oil. Bucket test on water 6.1 bbls. water per hour.</p> <p>Well flowed to tank for 24 hours 8-28-64. Tubing pressure 160#. Measured flow of oil 262.7 bbls. Bucket test on water varied from 7.1 bbls. per hour to 4.75 bbls. per hour, averaged 5.92 bbls. per hour.</p> <p>On August 29, 1964, killed well. Unseated Baker Model R-2 packer. Ran 35 joints of tubing in hole. Latched on to and unseated Baker retrievable bridge plug. Pulled and laid down same. Ran Baker Model R-2 packer on 2-3/8" tubing. Set packer at 8,438' KB with 1 joint of 2-3/8" tubing open ended below packer.</p> <p>Swabbed well in and turned to tanks at 6:30 p.m. 8-29-64. Well head pressure 120#. At 7:00 a.m. 8-30-64, well flowing to tanks on 2 1/2" choke. Well head pressure 220#.</p>

See Lisbon Unit Report

Note—There were _____ runs or sales of oil; _____ M cu. ft. of gas sold;

_____ runs or sales of gasoline during the month. (Write "no" where applicable.)

Note—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329

(January 1956)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN THIS
(Other instructions on
reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

SL Utah ML 8366

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

1.

OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

The Pure Oil Company

3. ADDRESS OF OPERATOR

P. O. Box 1611 - Casper, Wyoming

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

2250' FSL and 1860' FWL, NE SW

7. UNIT AGREEMENT NAME

Lisbon Unit

8. FARM OR LEASE NAME

Lisbon Unit

9. WELL NO.

D-616

10. FIELD AND POOL, OR WILDCAT

Lisbon - Miss.

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

Sec. 16, T-308, R-24E

14. PERMIT NO.

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

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

Supplementary Well History

(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 SUPPLEMENTAL SHEET ATTACHED

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

ORIGINAL SIGNED BY

SIGNED

R. E. DAVIS

TITLE

District Office Manager

DATE

9-21-64

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

SUNDRY NOTICES AND REPORTS ON WELLS

Lisbon Unit B-816
NE SW, Sec. 16, T-30S, R-24E
San Juan County, Utah

Supplementary Well History

September 21, 1964

On August 24, 1964, Barker Well Service moved in, rigged up and killed well. Worked packer loose and pulled tubing. Top 3,000' of tubing string heavily coated with paraffin.

Ran Baker retrievable bridge plug and Baker Model R-2 packer on 2-3/8" tubing. Bridge plug set at 8,526' KB. Released from bridge plug, laid down 3 joints of 2-3/8" 8 Rd. EUE tubing. Set Baker R-2 packer at 8,427' KB with 10,000# on packer. Swabbed perforations 8,461' - 8,505'. Swabbed gas and load water. Shut well in for night.

Tubing pressure after being shut in overnight was 220#. Turned well to pit. Making gas cut oil and water, estimated 50% oil and 50% water. Cleaned to pit 6 hours. Gas and oil increasing very slightly. Turned well to tank. Well head pressure increased from 100# to 150#. In 17 hours, well produced 150 bbls. of oil. Bucket test on water 6.1 bbls. water per hour.

Well flowed to tank for 24 hours 8-28-64. Tubing pressure 160#. Measured flow of oil 262.7 bbls. Bucket test on water varied from 7.1 bbls. per hour to 4.75 bbls. per hour, averaged 5.92 bbls. per hour.

On August 29, 1964, killed well. Unseated Baker Model R-2 packer. Ran 35 joints of tubing in hole. Latched on to and unseated Baker retrievable bridge plug. Pulled bridge plug and laid down same. Ran Baker Model R-2 packer on 2-3/8" EUE tubing. Set packer at 8,438' KB with one joint of 2-3/8" EUE 8 Rd. tubing open ended below packer.

Swabbed well in and turned to tanks at 6:30 p.m. Well head pressure 120#. At 7:00 a.m. 8-30-64, well flowing to tanks on 24/64" choke. Well head pressure 220#.



March 9, 1977

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

United States Geological Survey
P.O. Box 1809
Durango, CO 81301

Attention: Mr. Jerry Long
District Engineer

Gentlemen:

In order to remain in compliance with the United States Geological Survey rules on the handling of water produced with oil and gas should anything happen to the present SWD Well B-624, Union Oil Company of California, Operator, applies for approval to temporarily dispose of water into the Mississippian formation through the wellbore of Lisbon Unit Well B-816 located in the NE SW of Section 16, Township 30 South, Range 24 East, San Juan County, Utah.

* Unit Well B-816 would only be used as a backup to the present water disposal well in order to prevent curtailing oil and gas production from the unit. In support of the application to temporarily dispose of water in the Mississippian zone in Well B-816, we show:

- 1) Designated name of proposed disposal well -

Lisbon Unit Well B-816

Location - 1860 FWL and 2250' FSL of Section 16, Township 30 South, Range 24 East, San Juan County, Utah

The well is located on State of Utah Lease - Utah ML 8366

- 2) The source of water to be injected is water to be produced along with oil and gas from the Mississippian formation in the Lisbon Field. The daily quantity of water injected is estimated to be 5200 BWP. (Water analyses attached)
- 3) The formation into which water is to be injected is the Mississippian reservoir at a depth of 8461 feet to 8505 feet. A copy of a portion of the sonic log showing the injection interval is attached.

- 4) Total dissolved solids for the Mississippian interval are greater than 50,000 ppm as shown in the attached typical water analyses.
- 5) Water sands of the Cedar Mesa member of the Cutler formation would have to be considered usable in the entire Lisbon Unit. Depth to the base of this sand ranges from 1200 feet to 1800 feet. (Geological Survey Bulletin #841)
- 6) Eighteen inch OD conductor pipe was set in a 24" hole at 36 feet and cemented with 20 sacks regular cement containing one sack Cal-seal and one sack calcium chloride.

New 8-5/8" OD, 24#, J-55 casing was set at 2023' and cemented with 410 sacks 50-50 pozmix, 4% gel, 2% HA-5 followed by 100 sacks regular cement containing 2% HA-5 in an 11" hole. The hole was cemented behind pipe with 40 sacks regular cement to bring cement to surface.

New 5-1/2" OD, 17#, N-80 and J-55 was set from surface to 8732 feet in a 7-7/8" hole. The first stage was 125 sacks neat containing 2% gel, 1/4# per sack Flo-seal followed by 1000 cubic feet containing 40% Diacel, 84% salt saturated cement, and 1/4# Flo-seal per cubic foot. Cement top by temperature log is 5000 feet.

- 7) Total depth is 8732 feet, PBTB is 8690 feet K.B.
- 8) Proposed completion method includes setting a Baker Lok-Set injection packer at 8167 feet and installing 2-7/8" CS Hydril tubing. Anticipated injection pressure is 2000-3000 psig. Items (6), (7), and (8) are shown schematically on the attached drawing.
- 9) Lisbon Unit Well B-816 was completed in April, 1961 in the Mississippian by Belco Petroleum. The well last pumped 386 BWPB plus 1 BOPB in 1973, and is one of the lowest structured wells in the unit. Current plans are to use this well only as a backup to the present water disposal well. The wellhead pressures will be monitored and injection profiles may be run to insure that the water is confined to the injection interval.

Attached is a structure contour map contoured on the top of the Mississippian. The map shows the location of the present salt water disposal well and the proposed temporary disposal well. Also attached is a list showing the names and addresses of owners within a one-half (1/2) mile radius of the proposed disposal well upon whom notice of this application has been served by mailing a copy of this application. Your early approval is respectfully requested.

Yours very truly,



Harold Simpson
District Operations Manager

MAM: jh
Attachments

Union Oil and Gas Division: Central Region
Union Oil Company of California
Post Office Box 2620, Casper, Wyoming 82602
Telephone (307) 234-1563

APPROVED
MAR 13 1977
E.A. Schmidt
E. A. SCHMIDT
ACTING DISTRICT ENGINEER

*SUBJECT TO APPROVAL
BY UTAH O&G CC.*

UNION 73

RECEIVED

MAR 2 1977

March 9, 1977

*Sent Copy
to J.L. Beck in copy.*

HS	<i>J</i>
RTS	<i>JOR</i>
RGL	
WES	
File	

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

United States Geological Survey
P.O. Box 1809
Durango, CO 81301

RECEIVED

Attention: Mr. Jerry Long
District Engineer

MAR 14 1977

Gentlemen:

**U. S. GEOLOGICAL SURVEY
DURANGO, COLO.**

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Unit Well B-816 would only be used as a backup to the present water disposal well in order to prevent curtailing oil and gas production from the unit. In support of the application to temporarily dispose of water in the Mississippian zone in Well B-816, we show:

1) Designated name of proposed disposal well -

Lisbon Unit Well B-816

**DEFINITE
867 25 1977**

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The well is located on State of Utah Lease - Utah ML 8366

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Open.

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Yours very truly,



Harold Simpson
District Operations Manager

MAM: jh
Attachments



UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL [] GAS WELL [X] OTHER Alternate SWD Well
2. NAME OF OPERATOR Union Oil Company of California
3. ADDRESS OF OPERATOR P.O. Box 2620, Casper, WY 82602
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1860' FWL and 2250' FSL (NE SW)
5. LEASE DESIGNATION AND SERIAL NO. SL Utah ML 8366
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME Lisbon Unit
8. FARM OR LEASE NAME Lisbon Unit
9. WELL NO. Below state #4 B-816
10. FIELD AND POOL, OR WILDCAT Lisbon - Miss.
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 16, T30S, R24E
12. COUNTY OR PARISH San Juan
13. STATE Utah
14. PERMIT NO.
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6084' G.L.



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) Equip for Alternate SWD [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.)

Ran 2-7/8" tubing and packer to 8167'. Treated well with 1500 gallons HCl at 3.5 BPM at 1200 psi.

- 3-18-77 Obtained U.S.G.S. approval to convert to alternate SWD well.
3-24 to 4-1-77 Tested well intermittently for injectivity.
8-15-77 Injected Lisbon produced salt water + 3,000 ppm nitrate tracer (ammonium nitrate) to check for communication with offset producers. None detected after injecting 29,000 BW + 4,000# nitrate tracer. Cumulative injection through August - 43,000 BW at 850 psi.
Sept. 77 Injected 52,000 BW during 21 days in September at an average pressure of 800 psi. No nitrate detected in offset producers. Cumulative injection - 95,000 BW. Communication between tubing and casing detected in early September.
9-8-77 Rigged up pulling unit. Released packer. Installed BOP's. POOH with tubing and packer. Started going in hole testing tubing internally to 6000 psig. S.D.O.N. (CONTINUED ON ATTACHED SHEET)

18. I hereby certify that the foregoing is true and correct
SIGNED Harold Simpson TITLE District Operations Manager DATE 10-27-77

(This space for Federal or State office use)

APPROVED BY CONDITIONS OF APPROVAL, IF ANY TITLE DATE

Approved Nov. 1, 1977 See Instructions on Reverse Side

Union Oil Company of California

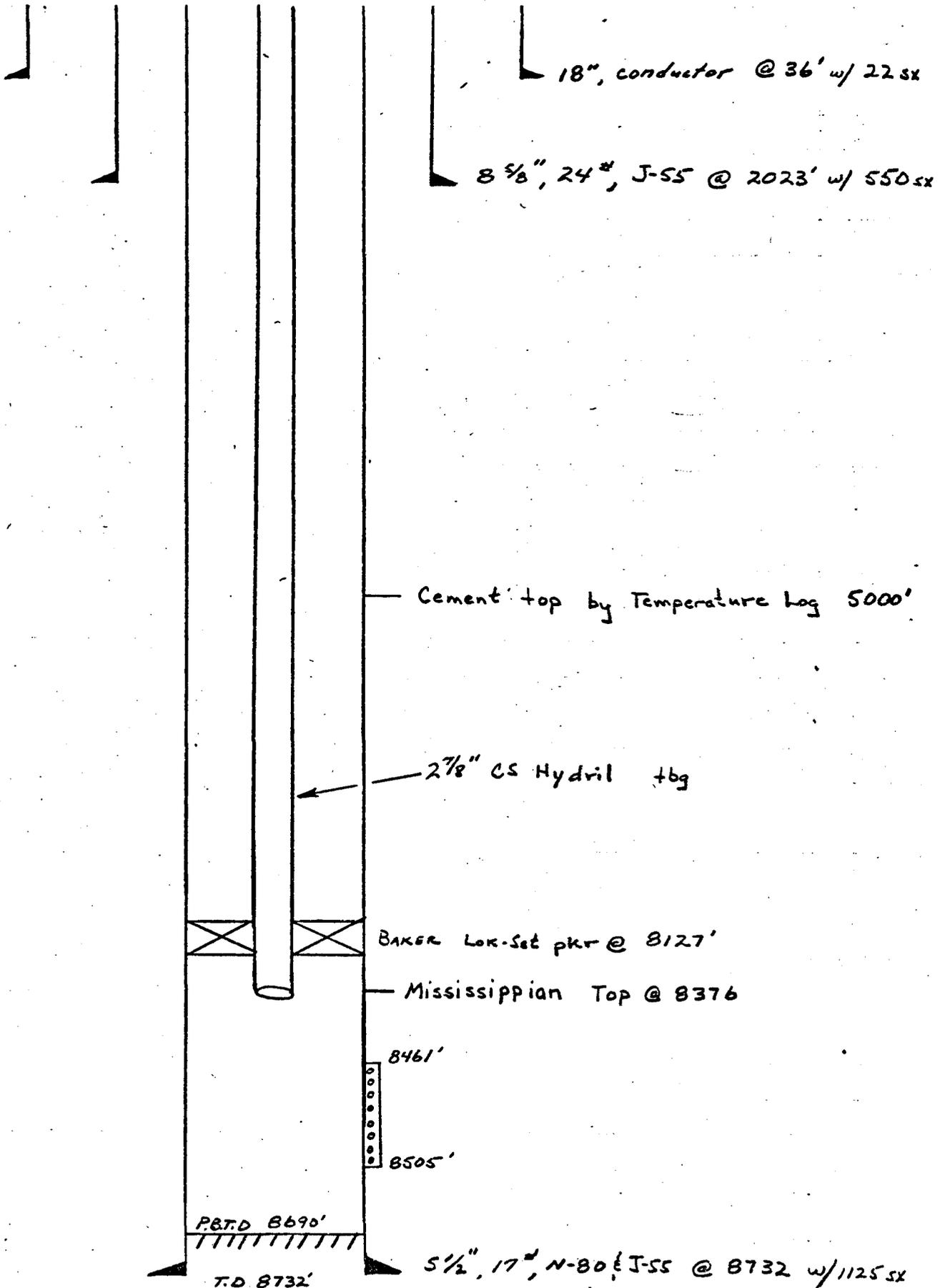
Lisbon Unit Well No. B-816

Page 2

October 27, 1977

- 9-9-77 FGIH testing tubing. Set packer at 8229' with 15,000# tension on tubing. Installed tubing head and valve. Filled casing with fresh water. Treated with 1% Baroid B-1400. Released pulling unit.
- 9-12-77 Acidized well with 3000 gallons 28% HCl, 150# rock salt, and 150# Benzoic flakes with 7 bbls water used as diverter after first 1500 gals of acid. First 60 bbls fluid injected at 3 BPM at 0#. Injection pressure rose to 500# at 60 bbls and broke back to 0# at 80 bbls. Remainder of job at 2 BPM at 0#. Acid displaced with 60 bbls produced water. OFF REPORT.

LISBON UNIT WELL No. B-016



18", conductor @ 36' w/ 22 sx

8 5/8", 24", J-55 @ 2023' w/ 550 sx

Cement top by Temperature Log 5000'

2 7/8" CS Hydril tbg

BAKER Lok-Set pkrs @ 8127'

Mississippian Top @ 8376

8461'

8505'

P.B.T.D 8690'

T.D 8732'

5 1/2", 17", N-80 J-55 @ 8732 w/ 1125 sx

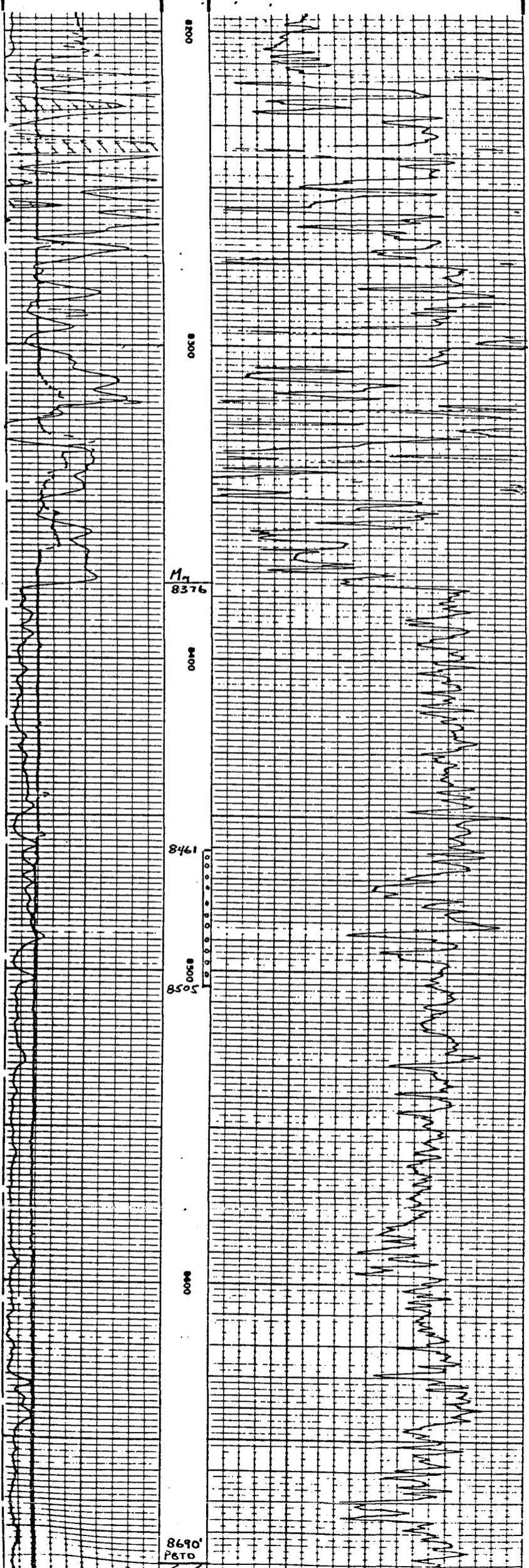
SCHLUMBERGER WELL SURVEYING CORPORATION



COUNTY: SAN JUAN, UTAH FIELD or LOCATION: NW LISBON, BELCO STATE WELL: BELCO STATE	COMPANY: BELCO PETROLEUM CORPORATION	Other Surveys: LL, CDM
	WELL: BELCO STATE 14 B 816	Location of Well: NW NE SW
COMPANY: BELCO PETROLEUM CORPORATION	FIELD: NW LISBON	
	LOCATION SEC. 16-32-24E 2250' N/S - 1860' E/W	
COUNTY: SAN JUAN	Elevation: K.B.: 6095	
STATE: UTAH	D.F.: or G.L.: 509A	

Log Depths Measured From KB Ft. above GL

RUN No.	DATE		
Date	3-31-61		
First Reading	8725		
Last Reading	100		
Feet Measured	8625		
Cog. Schlum.	2020		
Cog. Driller	2705		
Depth Reached	8731		
Bottom Driller	8730		
Mud Mat.	SAL BASE OIL EMUL.		
Dens. Visc.	10.1		
Mud Resist.	.067 55 F		
Res. BHT	.034 129 F		
pH	6.0 F		
Wtr. Loss	5.0 CC 30 min F		
Rmf	0.18 82 F		
Bit Size	7 7/8" CSG-8463; 7 3/16" R 63-8696;		
Spacing:	7 5/8" 8696-TD		
T 3 R 1R	8200 To 10		
T 3 R 3R	CSG To 10		
Opr. Rig Time	9 HOURS		
Truck No.	3501 CORLEZ		
Recorded By	NEVITT		
Witness	MESSEKS, MERRITT, ROYCE, WILTON		



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

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

sent 7/18/86

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER Alternate SWD Well - Shut In

2. NAME OF OPERATOR
Union Oil Company of California

3. ADDRESS OF OPERATOR
P. O. Box 2620 - Casper, WY 82602-2620

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
2250' FSL & 1860' FWL (NE SW)

5. LEASE DESIGNATION AND SERIAL NO.
Utah ML 8366

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Lisbon Unit

8. FARM OR LEASE NAME
Lisbon Unit

9. WELL NO.
B-816

10. FIELD AND POOL, OR WILDCAT
Lisbon Field (Miss.)

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 16, T.30S., R.24E.

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, G.L., etc.)
6084' G.L.

RECEIVED
JUL 16 1986

DIVISION OF
OIL, GAS & MINING

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) REACTIVATE WELL <input checked="" type="checkbox"/>	

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

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

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

8732' TD
8-5/8" @ 2023' w/5
5-1/2" @ 8732' w/1

Note
Request to access survey
When well commences
injection to detect any
channeling through old
cement above miss.

Belco State No. 4
Petroleum Corp. completed as
all in 1961.
Plugged to SWD well in 1977.
(3461-8505')
(3550-8564') - Mississippian
(3587-8597')

Reason

Lisbon Unit Well
of California pro
well if any failur

May, 1978. Union Oil Company
use as an emergency disposal

Proposed Plan of I

MIRU well servic
BOP's. POOH, lay... packer. N.D. Xtree. N.U.
and packer. RIH on wireline
with gauge ring and junk basket to ETD. If ETD is less than 8682', P.U. 2-7/8"
workstring and clean out. Perforate Mississippian from 8564-8587' and 8659-8679'
with 4 spf using 4" casing gun. RIH with retrievable packer on 3-1/2" coated
(Continued on Attached Sheet)

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

SIGNED R. G. Ladd, Jr. TITLE District Drilling Supt. DATE 7-14-86
(This space for Federal or State office use)

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

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 7/18/86
BY: [Signature]

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions re-
verse side)

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

sent 7/18/86

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL GAS WELL OTHER Alternate SWD Well - Shut In

2. NAME OF OPERATOR
Union Oil Company of California

3. ADDRESS OF OPERATOR
P. O. Box 2620 - Casper, WY 82602-2620

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
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Sec. 16, T.30S., R.24E.

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15. ELEVATIONS (Show whether DF, RT, G, etc.)
6084' G.L.

RECEIVED
JUL 16 1986

DIVISION OF
OIL, GAS & MINING

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

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

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

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

8732' TD
8-5/8" @ 2023' w/500 sx
5-1/2" @ 8732' w/1125 sx cmt

*Formerly Belco State No. 4
Belco Petroleum Corp. completed as
an oil well in 1961.
Converted to SWD well in 1977.
Perfs: 8461-8505'
8550-8564') - Mississippian
8587-8597')

Reason

Lisbon Unit Well No. B-816 has been shut in since May, 1978. Union Oil Company of California proposes to reactivate this well to use as an emergency disposal well if any failure occurs at SWD No. 2 or B-624.

Proposed Plan of Procedure

MIRU well service unit. P.U. and release Lok-Set packer. N.D. Xtree. N.U. BOP's. POOH, laying down 2-7/8" CS hydril tubing and packer. RIH on wireline with gauge ring and junk basket to ETD. If ETD is less than 8682', P.U. 2-7/8" workstring and clean out. Perforate Mississippian from 8564-8587' and 8659-8679' with 4 spf using 4" casing gun. RIH with retrievable packer on 3-1/2" coated
(Continued on Attached Sheet)

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SIGNED R. G. Ladd, Jr. TITLE District Drilling Supt. DATE 7-14-86

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 7/18/86
BY: [Signature]

*See Instructions on Reverse Side

Union Oil Company of California
Lisbon Unit Well No. B-816
Lisbon Field
San Juan County, NM
7-14-86
Page 2

tubing. Spot acid from 8685' to 8500'. P.U. and circulate inhibited water down annulus for packer fluid. Set packer at 8400'. N.D. BOP's and N.U. wellhead. Test backside to 750 psi. Acidize Mississippian perforations with 12,000 gals. 28% MSR acid plus additives and divert with 2#/gal. rock salt and 40# gel in stages. Immediately swab well back for clean up. Put on injection test.



State of Utah

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter

Governor

Dee C. Hansen

Executive Director

Dianne R. Nielson, Ph.D.

Division Director

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

7
302 242 4

43-037-16244

December 2, 1988

Union Oil Company of California
P.O. Box 760
Moab, Utah 84532

Gentlemen:

Re: Pressure Test for Mechanical Integrity, Lisbon Unit Wells D-84, D-610, B-614, B-624, San Juan County, Utah

The Underground Injection Control Program which the Division of Oil, Gas and Mining (DOGM) administers in Utah, requires that all Class II injection wells demonstrate mechanical integrity. It has been past policy of the Division to require pressure testing of all Class II salt water disposal wells and other injection wells not reporting monthly annulus pressures in accordance with rule R615-5-5.3 of the Oil and Gas Conservation General Rules. This rule requires that the casing-tubing annulus above the packer be pressure tested at a pressure equal to the maximum authorized injection pressure or 1,000 psi, whichever is lesser, provided that no test pressure is less than 300 psi. This test shall be performed at least every five year period beginning October, 1982. Our records indicate the above referenced wells are due for testing for the second five year period. Please make arrangements and ready the wells for testing on January 4, 1988 as outlined below:

1. Operators must furnish connections, and accurate pressure gauges, hot oil truck (or other means of pressuring annulus), as well as personnel to assist in opening valves etc.
2. If mechanical difficulties or workover operations make it impossible for the well to be tested on this date the test may be rescheduled.
3. Company personnel should meet DOGM representatives at the well site or other location as negotiated.
4. All bradenhead valves with exception of the tubing on the injection well must be shut in 24 hours prior to testing.

Please contact Mr. Dan Jarvis at (801) 538-5340 to arrange a meeting time or negotiate a different date if this one is unacceptable.

Sincerely,



Gil Hunt
Environmental/Geological Supervisor

bd
UII/13-14

CHECKLIST FOR INJECTION WELL APPLICATION AND FILE REVIEW

* * * * *

Operator: Union oil company Well No. B 816
 County: San Juan T 365 R 24E Sec. 16 API# 43-037-16244
 New Well Conversion Disposal Well Enhanced Recovery Well

	<u>YES</u>	<u>NO</u>
UIC Forms Completed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Plat including Surface Owners, Leaseholders, and wells of available record	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Schematic Diagram	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fracture Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pressure and Rate Control	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Adequate Geologic Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Fluid Source Mississippi Mc Crahan

Analysis of Injection Fluid Yes No TDS 50,000
 Analysis of Water in Formation to be injected into Yes No TDS 50,000

Known USDW in area cutler Depth 1200-1800'
 Number of wells in area of review 3 Prcd. 1 P&A 2
 Water 0 Inj. 0

Aquifer Exemption Yes NA
 Mechanical Integrity Test Yes No
 Date _____ Type _____

Comments: B 816 is used only as a back up well to 624 and is VSI most of the time

Reviewed by: [Signature]

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.

SL Utah ML 8366

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

Lisbon Unit

8. Well Name and No.

B - 816

9. API Well No.

43-027-16244

10. Field and Pool, or Exploratory Area

Lisbon Mississippian

11. County or Parish, State

San Juan Co., Utah

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other Water Disposal Well

2. Name of Operator

Union Oil Company of California

3. Address and Telephone No.

3300 N. Butler, Suite 200, Farmington, NM 87401 (505)326-7600

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2250' FSL & 1860' FWL Sec. 16, T30S, R24E

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Repair tbg-csg communication</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The Lisbon Unit No. B-816 is one of two water disposal wells for the Lisbon Unit. The well has developed casing pressure indicating tubing - casing communication.

A workover will begin immediately to -

1. Pressure test tubing and packer. POOH and repair.
2. Run and set repaired injection equipment.
3. Perform Mechanical Integrity Test.
4. Acidize perforations.
5. Return to disposal.

A detailed workover procedure is attached

**Accepted by the State
of Utah Division of
Oil, Gas and Mining**

Date: 6-5-91

By: [Signature]

RECEIVED

JUN 03 1991

DIVISION OF
OIL GAS & MINING

14 I hereby certify that the foregoing is true and correct

Signed

[Signature]

Title Field Superintendent

Date 5/28/91

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Engineering CLC
Dist. Engineer ___
Drilling Eng. ___
Dist Drlg Supt ___

UNION OIL COMPANY OF CALIFORNIA
SOUTHWESTERN REGION
FARMINGTON DISTRICT
CONDITION OF HOLE AND PROCEDURE

DATE: 5/6/91

FIELD: Lisbon Mississippian AREA: Farmington
LEASE/UNIT: Lisbon Mississippian WELL NO. B-816
REASON FOR WORK: To eliminate tubing - casing communication

CONDITION OF HOLE:

ETD or cmt ret
TOTAL DEPTH: 8730' PBTD: @ 8690' KB DATUM IS 11' ABOVE GL

CASING RECORD: 18" conductor pipe @ 36" cmt'd w/20 sx.
8 5/8" 24# J-55 @ 2015' cmt'd w/550 sx-circ.
5 1/2" 17# N-80 & J-55 @ 8727' cmt'd w/1125 sx
DV tool @ 8278'

PERFORATIONS: Mississippian: 8461' - 8505'
8550' - 8597'
8659' - 8679'

TUBING DETAIL: 187 jts. 3 1/2" 8rd EUE + 83 jts 3 1/2" 10rd
NU internally coated tbg + Baker Lok-Set pkr
+1 jt 2 7/8" tailpipe.
FHD @ 8403'

ROD & PUMP DETAIL: NONE

REGULATORY AGENCY REQUIREMENTS:

Prior to work: • BLM Sundry Notice
• Copy of BLM Sundry to State
Subsequent to work: • BLM Sundry Notice
• Copy of BLM Sundry to State
• MIT results to State

PROCEDURE:

1. Drop standing valve and pump onto seat.
2. Blow down annulus.
3. Pressure test tubing to 1000 psi for 30 minutes.
Retrieve SV.

4. Release pkr. POOH w/injection equipment laying down for tbg inspection.
5. RIH w/bit and check ETD.
6. RU wireline. RIH and set Guiberson Unipkr VI w/profile nipples in tailpipe and profile plug in place and on/off tool receptacle @ 8370' on wireline.
7. RIH w/tbg and on/off overshot.
8. Circulate packer fluid.
9. Latch into on/off tool.
10. Release pressure on tbg.
11. Pressure annulus to 1000 psi and test for 30 minutes. Use pressure chart recorder on annulus. (Monitor for tubing pressure during test). Notify Gil Hunt or Dan Jarvis with State of Utah Oil/Gas and Mining @ (801) 538-5340 at least 3 days in advance to witness test.
12. Retrieve plug from packer.
13. Acidize Mississippian perms (8461' - 8679') w/2000 gals 15% HCL w/NE, FE & LST as follows (max rate 1 1/2 BPM):
 - . Pump 500 gals acid
 - . Pump 500# GRS (@ 2 ppg) carried in 10 ppg gelled brine
 - . Pump 500 gals acid
 - . Pump 500# GRS (@ 2 ppg) carried in 10 ppg gelled brine
 - . Pump 1000 gals acid
 - . Flush w/produced water
14. Swab back load ASAP.
15. Return to injection.

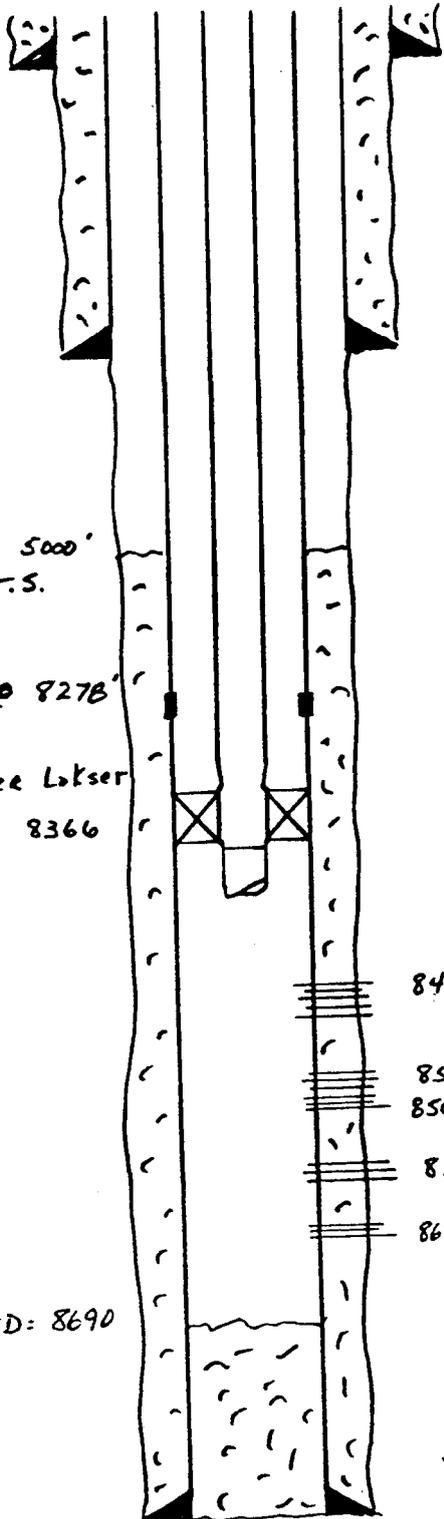
PREPARED BY	CHECKED BY	DATE	PAGE
		1-15-91	OF
		W/O/A/F/E NO	

SUBJECT

Lisbon Unit Well No. B-816

Location: 2250' FSL & 1860 FWL
 Sec 16, T30S R24E

Spud Date: 2-12-61
 KB: 11'
 GL: 6086'



18" conductor @ 36'. Cmt w/20 sx

8 5/8" 24# J-55 @ 2015'. Cmt w/550 sx - circ

3-1/2" TUBING DETAIL

31.10' -	-	2-7/8", 6.5#, N-80, 8RD tailpipe, open
1.08' -	-	2-7/8" x 2-1/4" I.D. seating nipple
4.52' -	-	Baker Lok-Set fullbore packer, coated
0.79' -	-	2-7/8", 8RD x 3-1/2", 8RD, J-55 swage w/collar coated w/TK69
0.83' -	-	3-1/2", 8RD x 3-1/2", 10RD, J-55 swage w/collar coated w/TK69
2569.71' -	83 jts.	3-1/2", 9.2#, J-55, 10RD, NUE, coated w/TK-75
0.83' -	-	3-1/2", 10RD x 3-1/2", 8RD, J-55 x-over w/collar coated w/TK69
5782.81' -	187 jts.	3-1/2", 9.3#, J-55, 8RD, EUE, coated w/TK75
8391.67' -	270 jts.	TOTAL TUBING
11.00' -	-	BKDB
8402.67'		<u>FINAL HANGING DEPTH</u>

8461 - 8505 Shot 4/6/61 (4spf) Acid w/ 6000 gal } communicated
 8550 - 64 Shot 11/28/62 (4spf)
 8564 - 87 (9/10/66) Acid w/ 3000 gal
 8587 - 97 Shot 2/62 (4spf)
 8659 - 79 (9/10/66) No TREATMENT

Note: Well converted to Injection 8/77
 Shot 2 new intervals in 1966 -
 Acidized entire interval w/ 12,000 gal

5 1/2" 17" N-80 & J-55 @ 8278'. DV @ 8278'
 1st Stg: 125 sx 2nd Stg: 1000 ft

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other **Water Disposal Well**

2. Name of Operator
Union Oil Company of California

3. Address and Telephone No.
3300 N. Butler, Ste 200, Farmington, NM 87401 (505) 326-7600

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
**2250' FSL & 1860' FWL
 Sec. 16, T30S R24E**

5. Lease Designation and Serial No.
SL Utah ML 8366

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation
LISBON UNIT

8. Well Name and No.
B-816

9. API Well No.
43-037-16244

10. Field and Pool, or Exploratory Area
Lisbon Miss.

11. County or Parish, State
**San Juan Co.,
 Utah**

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent <input checked="" type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input checked="" type="checkbox"/> Other Casing Mechanical Integrity Test
	<input type="checkbox"/> Change of Plans <input type="checkbox"/> New Construction <input type="checkbox"/> Non-Routine Fracturing <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Dispose Water <small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small>

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

6/5/91 MI RU pulling unit. Tested 3 1/2" tbg to 1,000 psi for 30 minutes, held ok. Bled tbg-annulus pressure from 700 psi to 0. Pressure tested annulus to 2,000 psi for 21 hrs., held ok (copy of chart attached). Acidized Mississippian perms 8461'-8679' w/2000 gals 15% HCL w/NE, FE, & LST w/500# GRS @ 2 ppg in 10# gelled brine in 2 stgs @ 1 1/2 BPM and 0-43 psi. Returned well to injection.

RECEIVED

JUN 20 1991

**DIVISION OF
 OIL GAS & MINING**

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

Signed

[Signature]

Title

Field Superintendent

Date

6/14/91

(This space for Federal or State office use)

Approved by

Title

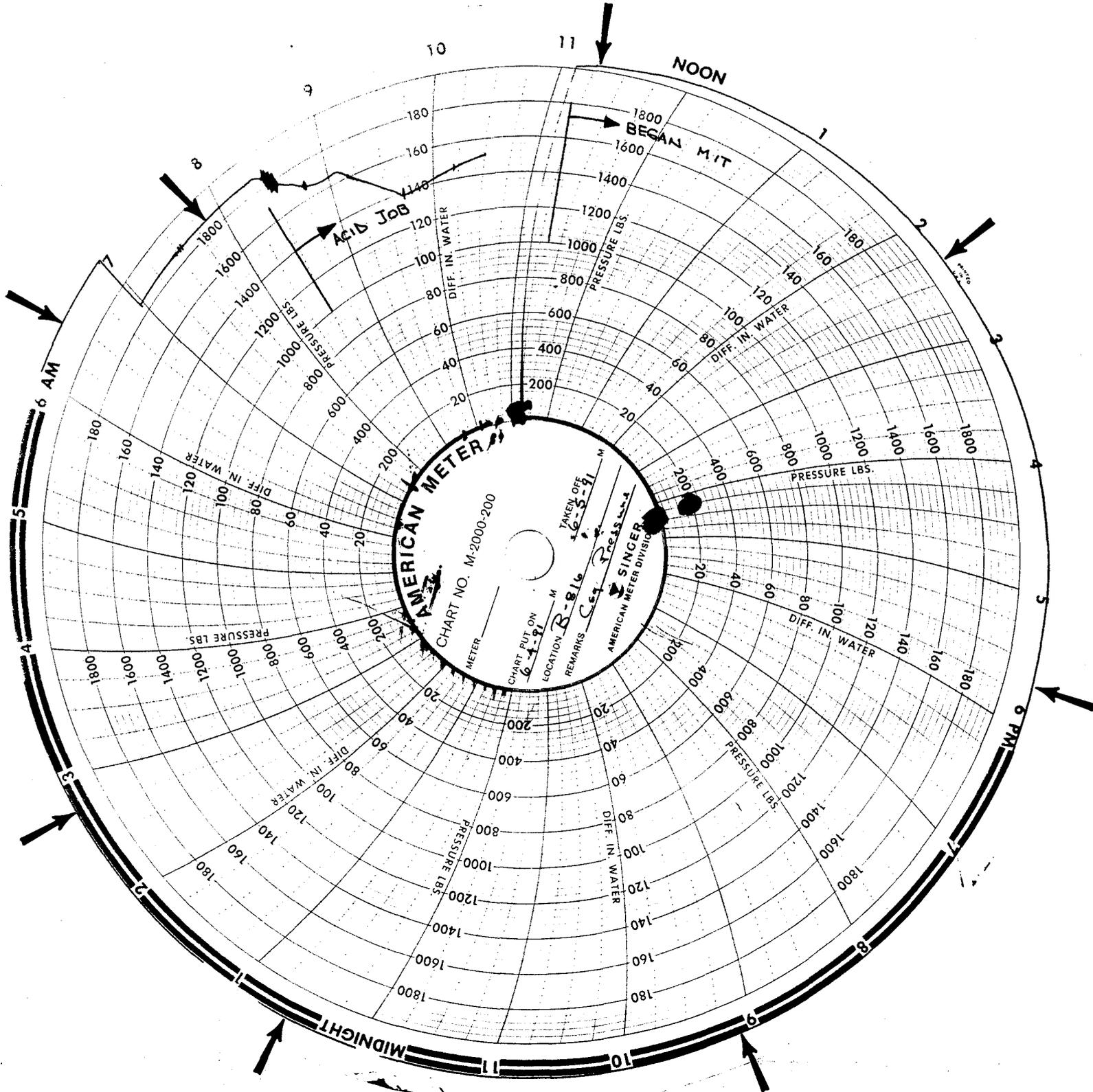
Date

Conditions of approval, if any:

RECEIVED

JUN 20 1991

DIVISION OF
OIL GAS & MINING





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

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

June 2, 1997

Union Oil Company of California
P.O. Box 760
Moab, Utah 84532-0760

Re: Pressure Test for Mechanical Integrity, B-624, D-610 and B-816 Injection Wells, Lisbon Unit, San Juan County, Utah

Gentlemen:

The Underground Injection Control Program which the Division of Oil, Gas and Mining (DOGMA) administers in Utah, requires that all Class II injection wells demonstrate mechanical integrity. Rule R649-5-5.3 of the Oil and Gas Conservation General Rules requires that the casing-tubing annulus above the packer be pressure tested at a pressure equal to the maximum authorized injection pressure or 1,000 psi, whichever is lesser, provided that no test pressure is less than 300 psi. This test shall be performed at least every five year period beginning October 1982. Our records indicate the above referenced wells are due for testing. Please make arrangements and ready the wells for testing during the week of June 16, 1997 as outlined below:

1. Operator must furnish connections, and accurate pressure gauges, hot oil truck (or other means of pressuring annulus), as well as personnel to assist in opening valves etc.
2. The casing-tubing annulus shall be filled prior to the test date to expedite testing, as each well will be required to hold pressure for a minimum of 15 minutes.

Page 2

Union Oil Company of California

June 2, 1997

3. If mechanical difficulties or workover operations make it impossible for the wells to be tested on this date the tests may be rescheduled.
4. Company personnel should meet DOGM representatives at the field office or other location as negotiated.
5. All bradenhead valves with exception of the tubing on the injection wells must be shut-in 24 hours prior to testing.

Please contact Dan Jarvis at (801)538-5338 to arrange a meeting time and place or negotiate a different date if this one is unacceptable.

Sincerely,



Gil Hunt
Environmental Manager, Oil & Gas

lwp

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

INJECTION WELL - PRESSURE TEST

Test Date: <u>6/18/97</u>	Well Owner/Operator: <u>UNOCAL</u>
Disposal Well: <u>X</u>	Enhanced Recovery Well: _____ Other: _____
API No.: <u>43-037-16244</u>	Well Name/Number: <u>B-816</u>
Section: <u>16</u>	Township: <u>30 S</u> Range: <u>24E</u>

Initial Conditions:

Tubing - Rate: _____ Pressure: 400 psi
Casing/Tubing Annulus - Pressure: 0 psi

Conditions During Test:

<u>Time (Minutes)</u>	<u>Annulus Pressure</u>	<u>Tubing Pressure</u>
0	<u>0</u>	<u>400</u>
5	<u>1020</u>	<u>400</u>
10	<u>1020</u>	<u>400</u>
15	<u>1020</u>	_____
20	_____	_____
25	_____	_____
30	_____	_____

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: 400 psi
Casing/Tubing Annulus Pressure: 0 psi

REMARKS:

Well was pressured to 1020 held 15 min
passed MFT.

Rich I. Cottrell
Operator Representative

D. Jones
DOGM Witness

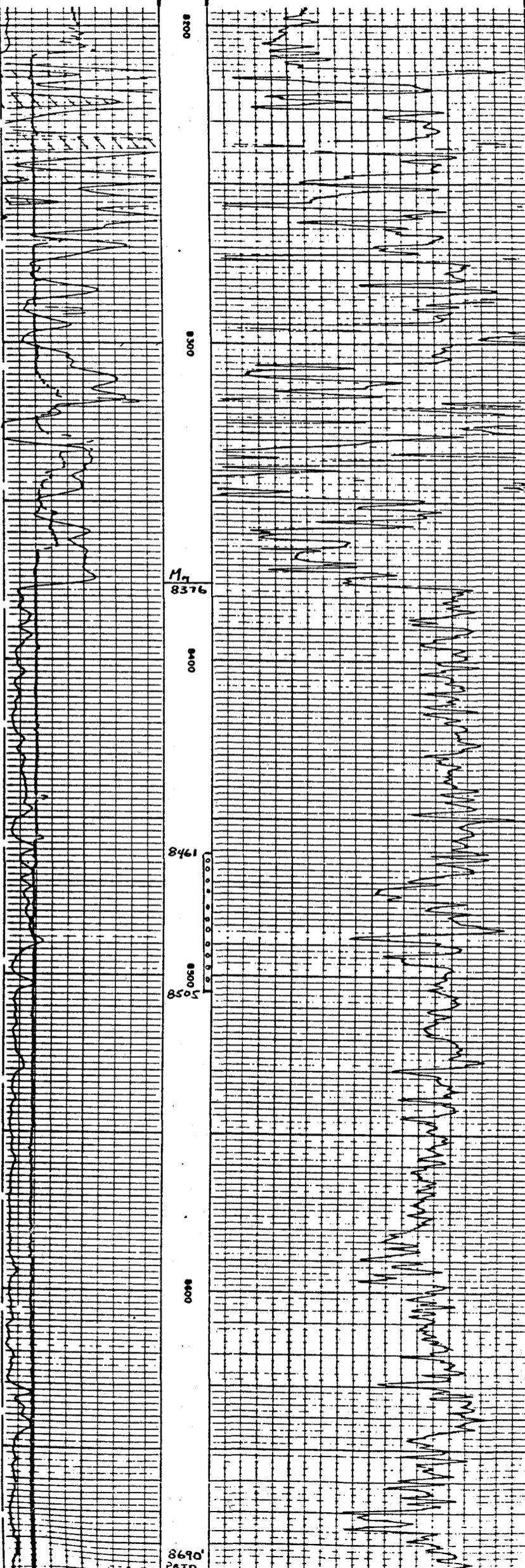
SCHLUMBERGER WELL SURVEYING CORPORATION

State Reg.

COUNTY... SAN JUAN, UTAH FIELD or LOCATION... NW 130N BELCO STATE WELL... BELCO STATE COMPANY... BELCO PETROLEUM CORPORATION	COMPANY BELCO PETROLEUM CORPORATION	Other Surveys LL, CDM
	WELL BELCO STATE	Location of Well NW NS SW
	FIELD NW LISBON	
	LOCATION SEC. 16-30S-24E 2250' N/S - 1860' E/W	
	COUNTY SAN JUAN STATE UTAH	Elevation: K.B.: 6095 D.F.: or G.L.: 6084

Log Depths Measured From B Ft. above GL

RUN No.	70VE
Date	3-31-61
First Reading	8725
Last Reading	100
Feet Measured	8625
Csg. Schlum.	32020
Csg. Driller	32005
Depth Reached	8731
Bottom Driller	8730
Mud Mat.	SALT BASE OIL EMUL.
Dens. Visc.	10.1 55
Mud Resist.	.067 65 F
Res. BHT	.034 129 F
pH	8.0 F
Wtr. Loss	0.0 CC 30 min F
Rmf	0.48 82 F
Bit Size	7 7/8" CSJ-8488 7 3/16" R-63-8696
Spacing:	7 5/8" 8696-ID
T 3 R 1R	8200 To ID
T 3 R 3R	CSJ To ID
Oper. Rig Time	35 HOURS
Truck No.	3501 CORTEZ
Recorded By	NEVILL
Witness	MESSEKS, MLKRITT, ROYCE, MUTTON



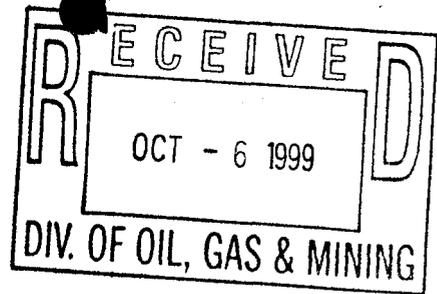
M₁ 8376

8461

8500 8550

8600

8690' P&T



TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

Well name and number: Lisbon B 816
Field or Unit name: Lisbon MS Unit/Mississippian API no. 43-037-16244-00
Well location: QQ NESW section 16 township 30S range 24E county San Juan
Effective Date of Transfer: 01/01/99

CURRENT OPERATOR

Transfer approved by:

Name ROBERT C. GNAGY Company Union Oil Company of California
Signature *Robert C. Gnagy* Address 14141 SOUTHWEST FREEWAY
Title ATTORNEY-IN-FACT SUGAR LAND, TX 77479
Date 9/27/99 Phone (281) 287-7600

Comments:

NEW OPERATOR

Transfer approved by:

Name Peter R. Scherer Company Tom Brown, Inc.
Signature *Peter R. Scherer* Address P.O. Box 760
Title Executive V.P. Moab, Utah 84532
Date _____ Phone (435) 686-7676

Comments:

(State use only)
Transfer approved by *A. H. T.* Title Tech. Services Manager
Approval Date 5-31-00

(To be filed within 30 days after drilling is completed)

DEPARTMENT OF NATURAL RESOURCES AND ENERGY

COUNTY
LEASE NO.

DIVISION OF OIL, GAS, AND MINING
Room 4241 State Office Building
Salt Lake City, Utah 84114

API NO. _____

840 Acres
N

W _____ E

8
Locate Well Correctly
and Outline Lease

COUNTY S Juan SEC. 16 TWP. 30S RGE. 24E
COMPANY OPERATING Union Oil Co. of Ca.
OFFICE ADDRESS P.O. Box 760
TOWN Moab STATE ZIP UT 84532
FARM NAME Lisbon Unit WELL NO. B-816
DRILLING STARTED 2-12-61 DRILLING FINISHED 3-30-61
DATE OF FIRST PRODUCTION 4-9-61 COMPLETED 4-9-61
WELL LOCATED ¼ NE ¼ SW ¼
2250 FT. FROM SL OF ¼ SEC. & 1860 FT. FROM WL OF ¼ SEC.
ELEVATION DERRICK FLOOR 6,095' GROUND 6084'

TYPE COMPLETION

Single Zone X
Multiple Zone _____
Comingled _____

LOCATION EXCEPTION

OIL OR GAS ZONES

Name	From	To	Name	From	To
Mississippian	8376	8730			

CASING & CEMENT

Casing Set				Csg. Test	Cement		
Size	Wgt.	Grade	Feet	Psi	Sax	Fillup	Top
18"			36'		20		
8-5/8"	24#	J-55	2015'		550		Surface
5-1/2"	17#	N-80 J-55	8727'		1125		5,000'

TOTAL DEPTH 8,730'

PACKERS SET
DEPTH 8,229'

NOTE: THIS FORM MUST ALSO BE ATTACHED WHEN FILING PLUGGING FORM DOGM-UIC-6

COMPLETION & TEST DATA BY PRODUCING FORMATION

1 2 3

FORMATION	Mississippian	
SPACING & SPACING ORDER NO.		
CLASSIFICATION (DISPOSAL WELL, ENHANCED RECOVERY, LP GAS STORAGE)	Salt Water Disposal	
PERFORATED	8461-8505'	
INTERVALS	8550-64'	
	8587-97'	
ACIDIZED?	7,000 gal 15% Hcl	
FRACTURE TREATED?		

INITIAL TEST DATA

Date	4-20-61		
Oil, bbl./day	468		
Oil Gravity	54.0		
Gas, Cu. Ft./day	936 MCF	CF	CF
Gas-Oil Ratio Cu. Ft./Bbl.	2,000 Est		
Water-Bbl./day	0		
Pumping or Flowing	F		
CHOKE SIZE	26/64		
FLOW TUBING PRESSURE	500 psig		

A record of the formations drilled through, and pertinent remarks are presented on the reverse.
(use reverse side)

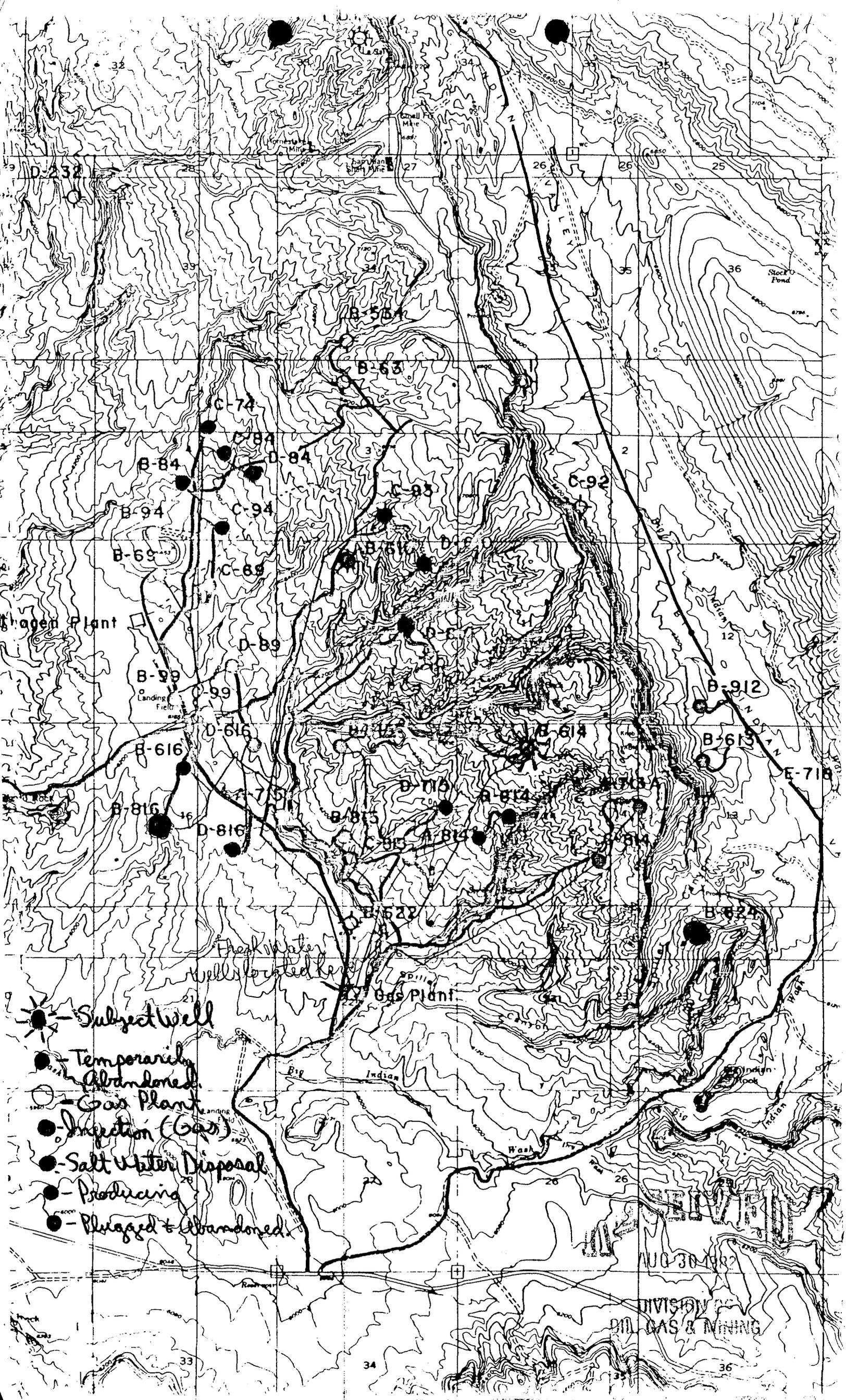
I, the undersigned, being first duly sworn upon oath, state that this well record is true, correct and complete according to the records of this office and to the best of my knowledge and belief.

(801)

Telephone 686-2236 B. E. Brown Area Supt.
Name and title of representative of company

Subscribed and sworn before me this _____ day of _____, 19 _____

(over)



D-232

Thagen Plant

Landing Field

Subject Well

Temporarily Abandoned

Gas Plant

Injection (Gas)

Salt Water Disposal

Producing

Plugged & Abandoned

Frank Water Wells located here

Gas Plant

DIVISION OF OIL, GAS & MINING

INJECTION WELLS

NAME	LOCATION OF WELLS	TOTAL DEPTH (ft)
B-614 43-037-1646E	667/N & 2030/W NENW Sec. 14-T30S-R24E	9022
B-610 43-037-16469	563/N & 2050/W NENW Sec. 10-T30S-R24E	8440
D-810 16471	1895/S & 755/E NESE Sec. 10-T30S-R24E	9310
D-84 16150	1980/S & 660/E NESE Sec. 4-T30S-R24E	9126

DISPOSAL WELLS

B-624	710/N & 166/W NENW Sec. 24-T30S-R24E	9648
B-816	1860/W & 2250/S NESW Sec. 16-T30S-R24E	8650

PRODUCTION WELL within 1/2 mile of Injection Wells and Disposal Wells

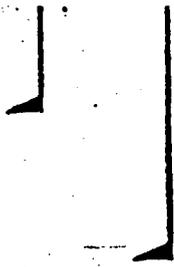
C-84	2690/N & 1520/E NWSE Sec. 4-T30S-R24E	8964
B-84	1648/S & 2516/W, Sec. 4-T30S-R24E	8766
C-74	1980/N & 1980/E SWNE Sec. 4-T30S-R24E	9017
C-94	330/S & 1600/E SWSE Sec. 4-T30S-R24E	8859
C-93	765/S & 2105/E, Sec. 3-T30S-R24E	8430
D-610	565/N & 964/E, Sec. 10-T30S-R24E	8510
B-616	1310/N & 2660/E NENW Sec. 16-T30S-R24E	8689
D-816	1620/S & 1220/E, Sec. 16-T30S-R24E	8666
D-715	2450/N & 335/E, Sec. 15-T30S-R24E	8896
B-814	1482/W & 2601/S, Sec. 14-T30S-R24E	8735
A-814	1980/S & 660/W, Sec. 14-T30S-R24E	9015

WATER WELLS

Plant Well #1	2780/N & 2450/E from SW corner Sec. 22-T30S-R24E	500
Shop Well #2	2346/N & 2586/E from Sw corner Sec. 22-T30S-R24E	500

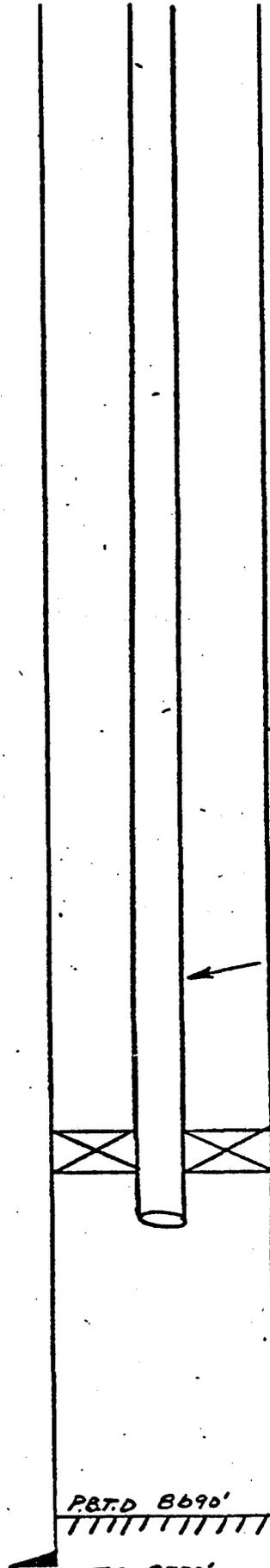
All land within a half mile of each injection well is federally, state and Union owned and the operator of all the wells within a half mile of the injection wells is Union Oil of California.

LISBON UNIT WELL No. B-E



18", conductor @ 36' w/ 22 sx

8 5/8", 24", J-55 @ 2023' w/ 550 sx



Cement top by Temperature log 5000'

2 7/8" CS Hydril tbg

BAKER Lok-Set pkc @ 8127'

Mississippian Top @ 8376

8461'

8505'

P.B.T.D 8690'

T.D 8732'

5 1/2", 17", N-80 J-55 @ 8732 w/ 1125 sx



June 21, 1985

RECEIVED

JUN 28 1985

DIVISION OF OIL
GAS & MINING

Mr. Cleon B. Feight
Utah Oil, Gas & Mining
355 W. North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

LISBON FIELD
UIC REQUIREMENTS

Dear Mr. Feight:

In your letter dated May 18 you requested missing information required by Rule I-4. A location plat of the Lisbon Field is enclosed. Copies of the authorized existing enhanced recovery wells form DOGM-UIC-8, the authorized existing disposal wells form DOGM-UIC-9, and the notice of completion form DOGM-UIC-2 for each authorized existing well are attached. Also attached is a corrected schematic diagram of the Lisbon Unit #D-810 and an analysis of our produced/injected water.

All injection wells are completed in the Mississippian formation. This zone consists of limestone and dolomite. The overlying and underlying strata consists mainly of shale with little or no permeability. The fracturing pressure for the Mississippian is about 5,500 psig BHP. Since the gas injectors are operating at less than 3,000 psig and the water injectors are operating at pressures less than 2,000 psig, all wells are well below any fracture pressures.

Both injection systems are protected by high pressure shut downs. The gas injection compressors shut down at 3,500 psig and the water injection pumps shut down at 3,000 psig. If a well failure should occur, our contingency plan is to shut in the well, isolate the problem and correct the problem. The mechanical integrity of the tubing, casing and packer will be monitored by pressure tests every five years.

S. V. ...
M. ...
B-816

Union Oil and Gas Division: Central Region
Union Oil Company of California
Post Office Box 2620, Casper, Wyoming 82602
Telephone (307) 234-1563

APPROVED
MAR 13 1977
E. A. Schmidt
E. A. SCHMIDT
ACTING DISTRICT ENGINEER

*SUBJECT TO APPROVAL
BY UTAH O&G CC.*

UNION

RECEIVED

MAR 24 1977

March 9, 1977

*Send Copy
to Ed Reed - mch*

HS	
RTS	
RGL	
VLD	
FIB	

FOR

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

United States Geological Survey
P.O. Box 1809
Durango, CO 81301

RECEIVED

Attention: Mr. Jerry Long
District Engineer

MAR 14 1977

Gentlemen:
U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

In order to remain in compliance with the United States Geological Survey rules on the handling of water produced with oil and gas should anything happen to the present SWD Well B-624, Union Oil Company of California, Operator, applies for approval to temporarily dispose of water into the Mississippian formation through the wellbore of Lisbon Unit Well B-816 located in the NE SW of Section 16, Township 30 South, Range 24 East, San Juan County, Utah.

Unit Well B-816 would only be used as a backup to the present water disposal well in order to prevent curtailing oil and gas production from the unit. In support of the application to temporarily dispose of water in the Mississippian zone in Well B-816, we show:

1) Designated name of proposed disposal well -

Lisbon Unit Well B-816

Location - 1860 FWL and 2250' FSL of Section 16, Township 30 South, Range 24 East, San Juan County, Utah

The well is located on State of Utah Lease - Utah ML 8366

2) The source of water to be injected is water to be produced along with oil and gas from the Mississippian formation in the Lisbon Field. The daily quantity of water injected is estimated to be 5200 BWP. (Water analyses attached)

3) The formation into which water is to be injected is the Mississippian reservoir at a depth of 8461 feet to 8505 feet. A copy of a portion of the sonic log showing the injection interval is attached.

Ch...

- 7
- 4) Total dissolved solids for the Mississippian interval are greater than 50,000 ppm as shown in the attached typical water analyses.
 - 5) Water sands of the Cedar Mesa member of the Cutler formation would have to be considered usable in the entire Lisbon Unit. Depth to the base of this sand ranges from 1200 feet to 1800 feet. (Geological Survey Bulletin #841)
 - 6) Eighteen inch OD conductor pipe was set in a 24" hole at 36 feet and cemented with 20 sacks regular cement containing one sack Cal-seal and one sack calcium chloride.

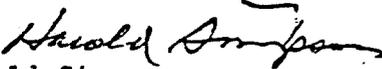
New 8-5/8" OD, 24#, J-55 casing was set at 2023' and cemented with 410 sacks 50-50 pozmix, 4% gel, 2% HA-5 followed by 100 sacks regular cement containing 2% HA-5 in an 11" hole. The hole was cemented behind pipe with 40 sacks regular cement to bring cement to surface.

New 5-1/2" OD, 17#, N-80 and J-55 was set from surface to 8732 feet in a 7-7/8" hole. The first stage was 125 sacks neat containing 2% gel, 1/4# per sack Flo-seal followed by 1000 cubic feet containing 40% Diacel, 84% salt saturated cement, and 1/4# Flo-seal per cubic foot. Cement top by temperature log is 5000 feet.

- 7) Total depth is 8732 feet, PBD is 8690 feet K.B.
- 8) Proposed completion method includes setting a Baker Lok-Set injection packer at 8167 feet and installing 2-7/8" CS Hydril tubing. Anticipated injection pressure is 2000-3000 psig. Items (6), (7), and (8) are shown schematically on the attached drawing.
- 9) Lisbon Unit Well B-816 was completed in April, 1961 in the Mississippian by Belco Petroleum. The well last pumped 386 BWPD plus 1 BOPD in 1973, and is one of the lowest structured wells in the unit. Current plans are to use this well only as a backup to the present water disposal well. The wellhead pressures will be monitored and injection profiles may be run to insure that the water is confined to the injection interval.

Attached is a structure contour map contoured on the top of the Mississippian. The map shows the location of the present salt water disposal well and the proposed temporary disposal well. Also attached is a list showing the names and addresses of owners within a one-half (1/2) mile radius of the proposed disposal well upon whom notice of this application has been served by mailing a copy of this application. Your early approval is respectfully requested.

Yours very truly,


Harold Simpson
District Operations Manager

MAM:jh
Attachments



N L Industries
P.O. Box 1675 Houston, Texas 77001

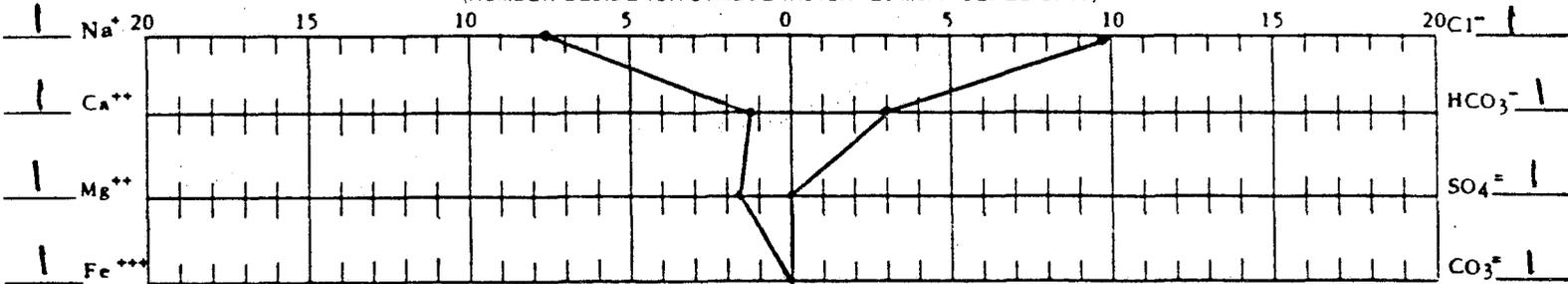
WATER ANALYSIS REPORT

BAROID TREATING CHEMICALS

COMPANY <i>Union Oil of California</i>						SHEET NUMBER	
FIELD <i>Lisbon</i>						DATE <i>4-21-80</i>	
LEASE OR UNIT <i>Plant Well</i>				WELL(S) NAME OR NO. <i>Plant Well</i>		COUNTY OR PARISH <i>San Juan</i>	
DEPTH, FT.		BHT, F		SAMPLE SOURCE <i>Plant Well</i>		TEMP, F	
DATE SAMPLED		TYPE OF WATER <input type="checkbox"/> PRODUCED <input checked="" type="checkbox"/> SUPPLY <input type="checkbox"/> WATERFLOOD <input type="checkbox"/> SALT WATER DISPOSAL		WATER, BBL/DAY		OIL, BBL/DAY	
				GAS, MMCF/DAY			

WATER ANALYSIS PATTERN

(NUMBER BESIDE ION SYMBOL INDICATES me/l* SCALE UNIT)



DISSOLVED SOLIDS

CATIONS	me/l*	mg/l*
Total Hardness	<i>2.5</i>	
Calcium, Ca ⁺⁺	<i>1.15</i>	<i>23.0</i>
Magnesium, Mg ⁺⁺	<i>1.35</i>	<i>18.35</i>
Iron (Total) Fe ⁺⁺⁺	<i>0.00</i>	<i>0.0</i>
Barium, Ba ⁺⁺	<i>0.00</i>	<i>0.0</i>
Sodium, Na ⁺ (calc.)	<i>7.5</i>	

DISSOLVED GASES

Hydrogen Sulfide, H ₂ S	<i>0</i> mg/l*
Carbon Dioxide, CO ₂	<i>Nil</i> mg/l*
Oxygen, O ₂	<i>Nil</i> mg/l*

ANIONS	me/l*	mg/l*
Chloride, Cl ⁻	<i>9.9</i>	<i>350</i>
Sulfate, SO ₄ ⁼	<i>0.0</i>	<i>0.0</i>
Carbonate, CO ₃ ⁼	<i>0.0</i>	<i>0.0</i>
Bicarbonate, HCO ₃ ⁻	<i>3.0</i>	<i>183.0</i>
Hydroxyl, OH ⁻	<i>0.0</i>	<i>0.0</i>
Sulfide, S ⁼	<i>0.0</i>	<i>0.0</i>

PHYSICAL PROPERTIES

pH	<i>8.0</i>
Eh (Redox Potential)	<i>-</i> MV
Specific Gravity	<i>1.001</i>
Turbidity, JTU Units	<i>-</i>
Total Dissolved Solids (calc.)	<i>-</i> mg/l*
Stability Index @ <i>-</i> F	<i>-</i>
CaSO ₄ Solubility @ <i>-</i> F	<i>-</i> mg/l*
Max. CaSO ₄ Possible (calc.)	<i>-</i> mg/l*
Max. BaSO ₄ Possible (calc.)	<i>-</i> mg/l*
Residual Hydrocarbons	<i>-</i> ppm (Vol/Vol)

SUSPENDED SOLIDS (QUALITATIVE)

Iron Sulfide Iron Oxide Calcium Carbonate Acid Insoluble

REMARKS AND RECOMMENDATIONS:

* SOME SAND WAS NOTED IN SAMPLE
* MINERALLY SUITABLE FOR DOMESTIC USE

* NOTE: me/l and mg/l are commonly used interchangeably for epm and ppm respectively. Where epm and ppm are used, corrections should be made for specific gravity.

BTC ENGINEER <i>Mike Jones NITC</i>	DIST. NO. <i>12</i>	ADDRESS <i>P.O. 2057 FARM. N. Mex</i>	OFFICE PHONE <i>505-325-5701</i>	HOME PHONE <i>505-325-6344</i>
ANALYZED	DATE <i>4-21-80</i>	DISTRIBUTION <input checked="" type="checkbox"/> CUSTOMER	AREA OR <input type="checkbox"/> DISTRICT OFFICE	BY <input type="checkbox"/> BTC SALES SUPERVISOR



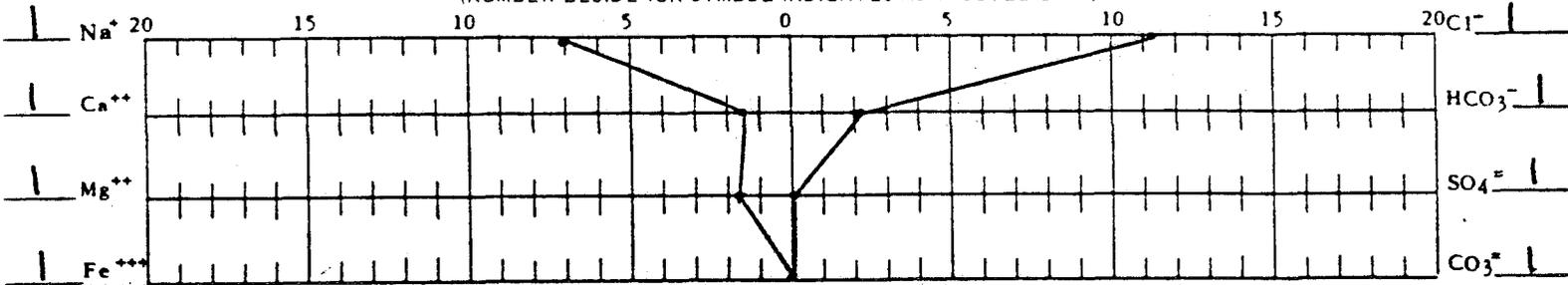
BAROID DIVISION
 NL Industries, Inc.
 P.O. Box 1675 Houston, Texas 77001

WATER ANALYSIS REPORT

BAROID TREATING CHEMICALS

COMPANY <i>Union Oil of California</i>						SHEET NUMBER	
FIELD						DATE <i>4-21-80</i>	
LEASE OR UNIT						COUNTY OR PARISH	
WELL(S) NAME OR NO. <i>Shop well</i>						STATE	
WATER SOURCE (FORMATION)						WATER SOURCE (FORMATION)	
DEPTH. FT.	BHT. F	SAMPLE SOURCE <i>Shop well</i>	TEMP. F	WATER. BBL/DAY	OIL. PRL/DAY	GAS. MMCF/DAY	
DATE SAMPLED		TYPE OF WATER		<input type="checkbox"/> PRODUCED <input checked="" type="checkbox"/> SUPPLY <input type="checkbox"/> WATERFLOOD <input type="checkbox"/> SALT WATER DISPOSAL			

WATER ANALYSIS PATTERN
 (NUMBER BESIDE ION SYMBOL INDICATES me/l* SCALE UNIT)



DISSOLVED SOLIDS

IONS	me/l*	mg/l*
Total Hardness	<u>3.2</u>	
Calcium, Ca ⁺⁺	<u>1.6</u>	<u>32.0</u>
Magnesium, Mg ⁺⁺	<u>1.6</u>	<u>19.52</u>
Iron (Total) Fe ⁺⁺⁺	<u>0</u>	<u>0.0</u>
Barium, Ba ⁺⁺	<u>0</u>	<u>0.0</u>
Sodium, Na ⁺ (calc.)	<u>7.0</u>	

DISSOLVED GASES

Hydrogen Sulfide, H ₂ S	<u>0</u> mg/l*
Carbon Dioxide, CO ₂	<u>N/D</u> mg/l*
Oxygen, O ₂	<u>N/D</u> mg/l*

PHYSICAL PROPERTIES

pH	<u>8.0</u>
Eh (Redox Potential)	<u>-</u> MV
Specific Gravity	<u>1.001</u>
Turbidity, JTU Units	<u>-</u>
Total Dissolved Solids (calc.)	<u>-</u> mg/l*
Stability Index @ ___ F	<u>-</u>
CaSO ₄ Solubility @ ___ F	<u>-</u> mg/l*
Max. CaSO ₄ Possible (calc.)	<u>-</u> mg/l*
Max. BaSO ₄ Possible (calc.)	<u>-</u> mg/l*
Residual Hydrocarbons	<u>-</u> ppm (Vol/Vol)

SUSPENDED SOLIDS (QUALITATIVE)

Iron Sulfide Iron Oxide Calcium Carbonate Acid Insoluble

REMARKS AND RECOMMENDATIONS:

** Mineraally Suited for Domestic Use.
 * Only two water wells in area, located at Gas Plant.*

* NOTE: me/l and mg/l are commonly used interchangeably for epm and ppm respectively. Where epm and ppm are used, corrections should be made for specific gravity.

BTC ENGINEER <i>Mike Jones - NLTC</i>	DIST. NO. <i>12</i>	ADDRESS <i>P.O. Box 2057 Faern. W.M.</i>	OFFICE PHONE <i>305-325-5701</i>	HOME PHONE <i>305-325-6244</i>
ANALYZED	DATE <i>4-21-80</i>	DISTRIBUTION <input checked="" type="checkbox"/> CUSTOMER <input checked="" type="checkbox"/> BTC ENGINEER OR	<input type="checkbox"/> AREA OR	<input type="checkbox"/> DISTRICT OFFICE <input type="checkbox"/> BTC SALES SUPERVISOR



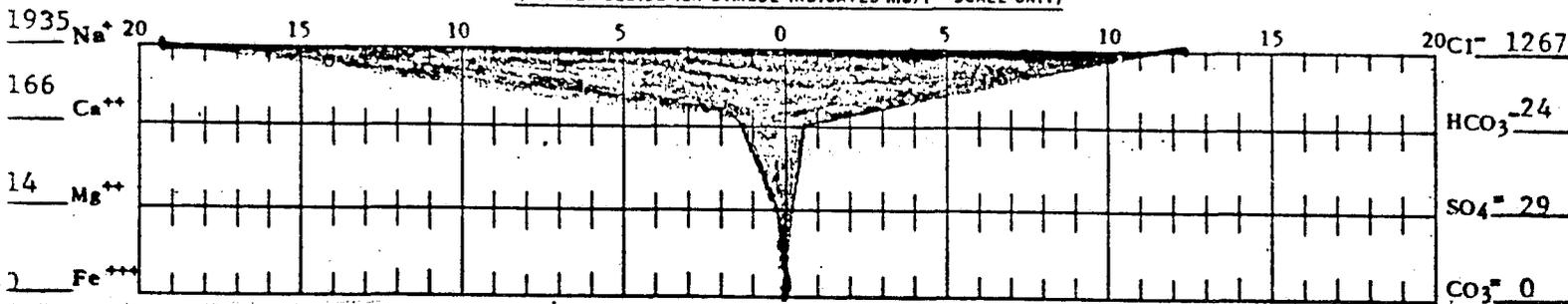
BAROID DIVISION
NATIONAL LEAD COMPANY
BAROID TREATING CHEMICALS

WATER ANALYSIS TEST REPORT

SHEET NUMBER

COMPANY UNION OIL COMPANY OF CALIFORNIA					DATE MAY 29, 1975		
FIELD				COUNTY OR PARISH SAN JUAN		STATE UTAH	
LEASE OR UNIT LISBON UNIT			WELL(S) NAME OR NO.		WATER SOURCE (FORMATION) WATER PLANT # 1		
DEPTH, FT.	BHT, F	SAMPLE SOURCE	TEMP, F	WATER, BBL/DAY	OIL, BBL/DAY	GAS, MMCF/DAY	
TYPE OF OIL		API GRAVITY 0	TYPE OF WATER <input type="checkbox"/> PRODUCED WATER <input type="checkbox"/> INJECTION WATER OTHER _____				

WATER ANALYSIS PATTERN
(NUMBER BESIDE ION SYMBOL INDICATES me/l* SCALE UNIT)



DISSOLVED SOLIDS

CATIONS

	me/l*	mg/l*
Total Hardness	180	9,000
Sodium, Na ⁺ (calc.)	1,935.86	44,525
Calcium, Ca ⁺⁺	166	3,320
Magnesium, Mg ⁺⁺	14	170.1
Iron (Total), Fe ⁺⁺⁺	0	0

ANIONS

Chloride, Cl ⁻	1,267.6	45,000
Sulfate, SO ₄ ⁼	29.7	1,425
Carbonate, CO ₃ ⁼	0	0
Bicarbonate, HCO ₃ ⁼	24.2	1,476.2
Hydroxyl, OH ⁻	0	0
Sulfide, S ⁼	1.8	29.4
Phosphate - Meta, PO ₃ ⁼	.038	3.00
Phosphate - Ortho, PO ₄ ⁼	.559	13.25
Total Phosphate	.77	18.25
Barium	1.78	50

DISSOLVED GASES

Hydrogen Sulfide, H ₂ S	_____	mg/l*
Carbon Dioxide, CO ₂	_____	mg/l*
Oxygen, O ₂	_____	mg/l*

PHYSICAL PROPERTIES

pH	6.4	
Eh (Redox Potential)	_____	MV
Specific Gravity	_____	
Turbidity, JTU Units	_____	
Total Dissolved Solids (Calc.)	_____	mg/l*
Stability Index @ 68 F	.55	
@ 86 F	.74	
CaSO ₄ Solubility @ _____ F	_____	mg/l*
@ _____ F	_____	mg/l*
Max. CaSO ₄ Possible (Calc.)	_____	mg/l*
Max. BaSO ₄ Possible (Calc.)	_____	mg/l*
Residual Hydrocarbons	_____	ppm (Vol/Vol)

SUSPENDED SOLIDS (QUALITATIVE)

Iron Sulfide Iron Oxide Calcium Carbonate Acid Insoluble

REMARKS AND RECOMMENDATIONS:

* NOTE: me/l and mg/l are commonly used interchangeably for epm and ppm respectively. Where epm and ppm are used, corrections should be made for specific gravity.

IC ENGINEER BOB CUDD	DIST. NO. 12	ADDRESS FARMINGTON NEW MEXICO	OFFICE PHONE 505-325-5701	HOME PHONE 505-334-2254
TESTED BY Heather Mann	DATE 5-30-75	DISTRIBUTION <input type="checkbox"/> CUSTOMER <input type="checkbox"/> AREA OR <input type="checkbox"/> DISTRICT OFFICE <input type="checkbox"/> PIC ENGINEER OR <input type="checkbox"/> PIC LAB <input type="checkbox"/> PIC SALES SUPERVISOR		



DOWELL DIVISION OF THE DOW CHEMICAL COMPANY

LABORATORY REPORT

B-624 FILE

FOR: Union Oil of California

See below

Lisbon Field

San Juan County, ~~N. Mexico~~ *UTAH*

DATE: February 6, 1975

LAB LOCATION: Casper

LAB NO. CL 4882 & 83

S. NO. 35511 & 12

TYPE OF SAMPLE:

Water (2)

DESCRIPTION:

Formation - Mississippian

BHT - 145°

The samples were submitted to the laboratory for analysis of solids in the water.

Sample #1 - Big Indian #1

Sample #2 - Lisbon B624

X-ray Diffraction Analysis

Major
(25-100%)

Minor
(10-30%)

Low
(less than 15%)

#1 Sulfur

none

Quartz (Fe S)

#2 Sulfur

Salt

Fe S, Quartz

Optical Emission Spectrographic Analysis

Major
(10-100%)

Minor
(1-10%)

Trace
(less than 1%)

#1 None

Si
Fe, Na (low)

Cd (high)
Pb, Sn, Mg, Al
Ti, Ca, Cu, Zn, Ag

#2 None

Fe (high)
Si, Na, Ca

Mg, Cr, Al (high)
Pb, Sn, Mn, Ba
Ti, V, Cu, Ag

J. E. White
J. E. White

JEW/ml

DISTRIBUTION:

A. J. Ruttinger

D15 - Denver Regional Office

Sales - Casper Office File

CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794
Casper, Wyoming

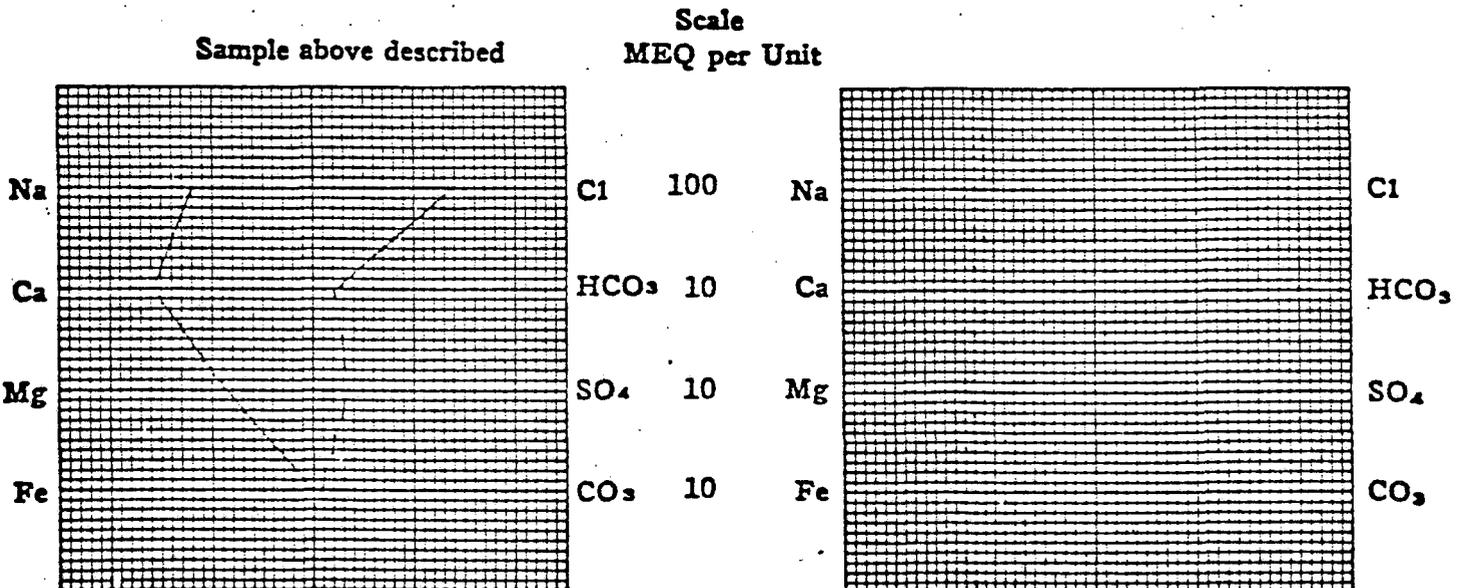
WATER ANALYSIS REPORT

OPERATOR	Union Oil Co. of Calif.	DATE	Oct. 23, 1972	LAB NO.	8905
WELL NO.	B-814	LOCATION	Sec. 14-30S-24E		
FIELD	Lisbon	FORMATION	Mississippian		
COUNTY	San Juan	INTERVAL			
STATE	Utah	SAMPLE FROM	Production water		

REMARKS & CONCLUSIONS: Cloudy water with clear filtrate

Cations	mg/l	meq/l	Anions	mg/l	meq/l
Sodium	26283	1143.30	Sulfate	1720	35.78
Potassium	1800	46.08	Chloride	48500	1367.70
Lithium			Carbonate	204	6.79
Calcium	3136	156.49	Bicarbonate	1171	19.20
Magnesium	1017	83.60	Hydroxide	—	—
Iron	Present	Present	Hydrogen sulfide	Present	Present
Total Cations			Total Anions		
1429.47			1429.47		
Total dissolved solids, mg/l			Specific resistance @ 68°F.:		
83237			Observed		
NaCl equivalent, mg/l			0.11 ohm-meters		
83029			Calculated		
Observed pH			0.10 ohm-meters		
8.6					

WATER ANALYSIS PATTERN



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



DOWELL DIVISION OF THE DOW CHEMICAL COMPANY

LABORATORY LOCATION **Casper** API WATER ANALYSIS REPORT FORM

DATE **February 6, 1975**

LAB NO. **CL 4882**

Company Union Oil of California		Sample No. 35512	Date Sampled 1-25-75	
Field Lisbon	Legal Description		County or Parish San Juan	State N. Mex
Lease or Unit Lisbon	Well B624	Depth	Formation Mississippian	Water, B/D
Type of Water (Produced, Supply, etc.) Disposed water		Sampling Point		Sampled By Ruttinger

DISSOLVED SOLIDS

CATIONS	mg/l	me/l
Sodium, Na (calc.)	<u>26473</u>	<u>1151</u>
Calcium, Ca	<u>4200</u>	<u>210</u>
Magnesium, Mg	<u>120</u>	<u>10</u>
Barium, Ba	_____	_____
_____	_____	_____

ANIONS	mg/l	me/l
Chloride, Cl	<u>46500</u>	<u>1329</u>
Sulfate, SO ₄	<u>925</u>	<u>19</u>
Carbonate, CO ₃	<u>0</u>	_____
Bicarbonate, HCO ₃	<u>1400</u>	<u>23</u>
_____	_____	_____
_____	_____	_____

Total Dissolved Solids (calc.) _____

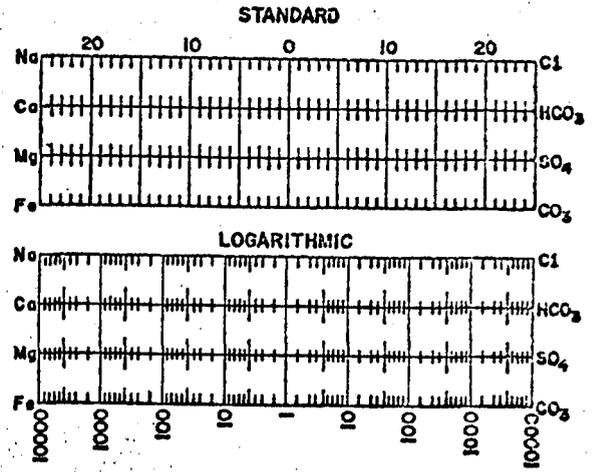
Iron, Fe (total) 450

Sulfide, as H₂S present strong

OTHER PROPERTIES

pH	<u>6.4</u>
Specific Gravity, 60/60 F.	<u>1.055</u>
Resistivity (ohm-meters) _____ F.	_____
<u>SI @ 145°F</u>	<u>+1.5</u>
_____	_____
_____	_____

WATER PATTERNS — me/l

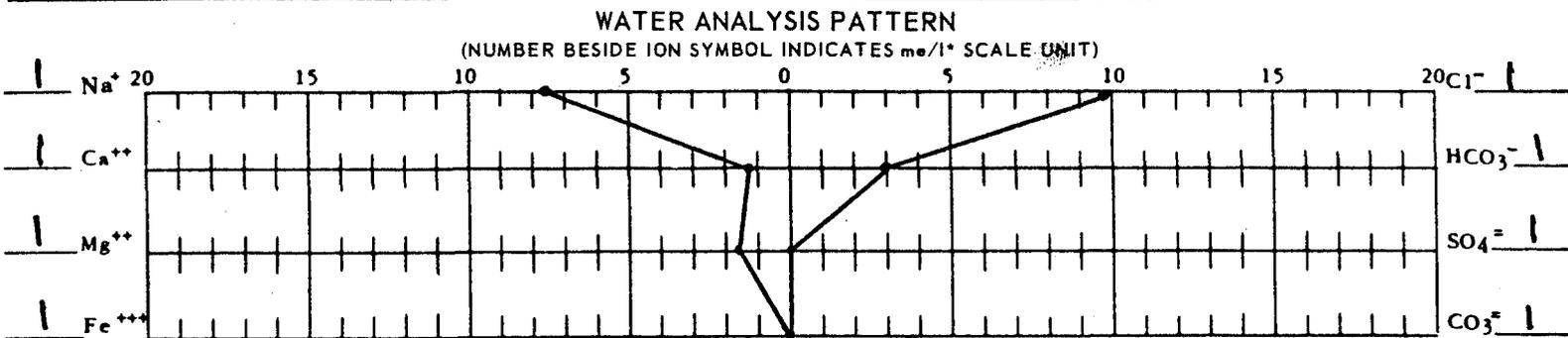


REMARKS & RECOMMENDATIONS:



BAROID TREATING CHEMICALS

						SHEET NUMBER	
COMPANY <i>Union Oil of California</i>						DATE <i>4-21-80</i>	
FIELD <i>Lisbon</i>			WELL(S) NAME OR NO. <i>Plant Well</i>			COUNTY OR PARISH <i>San Juan</i>	
LEASE OR UNIT			WATER SOURCE (FORMATION)			STATE	
DEPTH. FT.	BHT. F	SAMPLE SOURCE <i>Plant Well</i>	TEMP. F	WATER, BBL/DAY	OIL, BBL/DAY	GAS, MMCF/DAY	
DATE SAMPLED		TYPE OF WATER		<input type="checkbox"/> PRODUCED <input checked="" type="checkbox"/> SUPPLY <input type="checkbox"/> WATERFLOOD <input type="checkbox"/> SALT WATER DISPOSAL			



DISSOLVED SOLIDS

CATIONS	me/l*	mg/l*
Total Hardness	<u>2.5</u>	
Calcium, Ca ⁺⁺	<u>1.15</u>	<u>23.0</u>
Magnesium, Mg ⁺⁺	<u>1.35</u>	<u>18.35</u>
Iron (Total) Fe ⁺⁺⁺	<u>0.00</u>	<u>0.0</u>
Barium, Ba ⁺⁺	<u>0.00</u>	<u>0.0</u>
Sodium, Na ⁺ (calc.)	<u>7.5</u>	
<hr/>		
ANIONS	me/l*	mg/l*
Chloride, Cl ⁻	<u>9.9</u>	<u>350</u>
Sulfate, SO ₄ ⁼	<u>0.0</u>	<u>0.0</u>
Carbonate, CO ₃ ⁼	<u>0.0</u>	<u>0.0</u>
Bicarbonate, HCO ₃ ⁻	<u>3.0</u>	<u>183.0</u>
Hydroxyl, OH ⁻	<u>0.0</u>	<u>0.0</u>
Sulfide, S ⁼	<u>0.0</u>	<u>0.0</u>

DISSOLVED GASES

Hydrogen Sulfide, H ₂ S	<u>0</u> mg/l*
Carbon Dioxide, CO ₂	<u>ND</u> mg/l*
Oxygen, O ₂	<u>ND</u> mg/l*

PHYSICAL PROPERTIES

pH	<u>8.0</u>
Eh (Redox Potential)	<u>-</u> MV
Specific Gravity	<u>1.001</u>
Turbidity, JTU Units	<u>-</u>
Total Dissolved Solids (calc.)	<u>-</u> mg/l*
Stability Index @ ___ F	<u>-</u>
@ ___ F	<u>-</u>
CaSO ₄ Solubility @ ___ F	<u>-</u> mg/l*
@ ___ F	<u>-</u> mg/l*
Max. CaSO ₄ Possible (calc.)	<u>-</u> mg/l*
Max. BaSO ₄ Possible (calc.)	<u>-</u> mg/l*
Residual Hydrocarbons	<u>-</u> ppm(Vol/Vol)

SUSPENDED SOLIDS (QUALITATIVE)

Iron Sulfide Iron Oxide Calcium Carbonate Acid Insoluble

REMARKS AND RECOMMENDATIONS:

** Some sand was noted in sample*
** Mineraally suitable for domestic use*

* NOTE: me/l and mg/l are commonly used interchangeably for epm and ppm respectively. Where epm and ppm are used, corrections should be made for specific gravity.

BTC ENGINEER <i>Mike Jones NTC</i>	DIST. NO. <i>12</i>	ADDRESS <i>P.O. 2057 Farm. N. Mex</i>	OFFICE PHONE <i>505-325-5101</i>	HOME PHONE <i>505-325-6344</i>
ANALYZED	DATE <i>4 21 80</i>	DISTRIBUTION <input checked="" type="checkbox"/> CUSTOMER	<input type="checkbox"/> AREA OR	<input type="checkbox"/> DISTRICT OFFICE
		<input type="checkbox"/> BTC ENGINEER OR	<input type="checkbox"/> BTC LAB	<input type="checkbox"/> BTC SALES SUPERVISOR



ROCKY MOUNTAIN ENGINEERING CO.

WELL LOGGING—CORE AND WATER ANALYSIS

2580 HIGHWAY 6

PHONE CHAPEL 3-3044

GRAND JUNCTION, COLORADO

WATER ANALYSIS

COMPANY THE PURE OIL CO. FORMATION _____
 WELL _____ DEPTHS _____
 COUNTY _____ SAMPLE FROM _____
 STATE _____ DATE _____
 LOCATION _____ REPORT NO. 505

DESCRIPTION OF SAMPLE D-816

Constituents	PPM	MEQ	MEQ%
Sodium.....	12,221	531.65	26.72
Calcium.....	7101	355.05	17.87
Magnesium.....	1294	106.50	5.36
Sulfate.....	480	10.00	0.50
Chloride.....	34,500	973.20	48.99
Carbonate.....			
Bicarbonate.....	610	10.00	0.50
Hydroxide.....			

Total Solids in Parts per Million

By Evaporation.....	55,432
After Ignition.....	55,798
Calculated.....	56,206

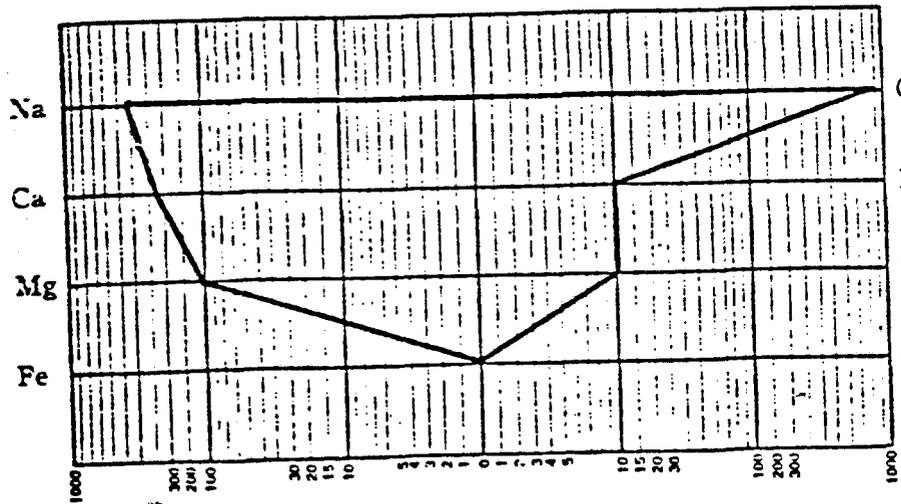
Properties of Reaction in Percent

Primary Salinity.....	53.58
Secondary Salinity.....	45.42
Primary Alkalinity.....	0.00
Secondary Alkalinity.....	1.00
Chloride Salinity.....	98.99
Sulfate Salinity.....	1.01

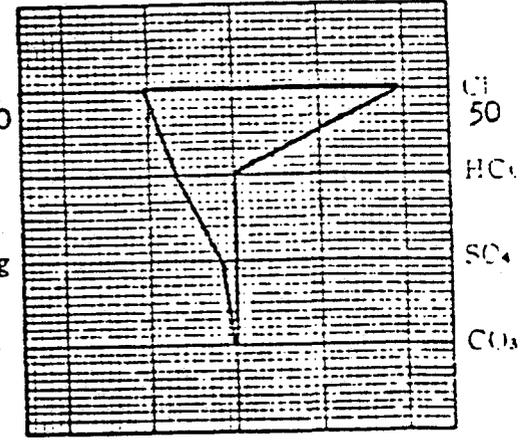
Observed pH 6.8 Resistivity @ 68°F., ohm-meters
 Chloride as NaCl 31,075 Measured..... 129
 Specific gravity @ 70°F..... 1.020

WATER ANALYSIS PATTERNS MEQ per unit

Logarithmic



Standard



SCHLEIBERGER WELL SURVEYING CORPORATION
Schleibeger

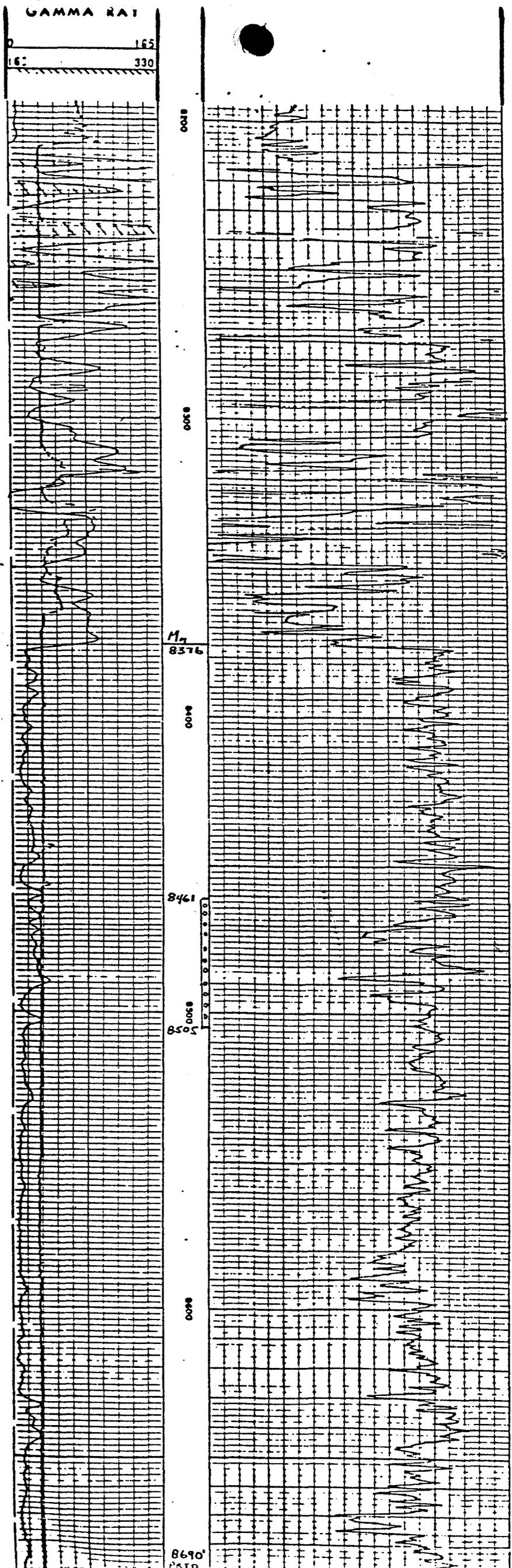
FIELD LOCATION: NW L150N BELCO STATE
 COMPANY: BELCO PETROLEUM CORPORATION

COMPANY: BELCO PETROLEUM CORPORATION
 WELL: BELCO STATE
 FIELD: NW L150N
 LOCATION SEC. 16-30E-24E
 2250' W/S - 1860' E/W
 COUNTY: SAN JUAN
 STATE: UTAH

Other Surveys: LL, CDM
 Location of Well: NW NE SW
 Elevation: K.B.: 5095
 D.F.:
 or C.L.: 5084

Log Depths Measured From: KB Ft. above SL

RUN No.	3-31-61
Reading	8725
Measured	100
Schlum.	2020
Driller	2205
Depth Reached	8731
from Driller	8730
Fluid	SALT BASE OIL EMUL.
Visc.	10.1
Resist.	.067
Res. BHT	.034
pH	6.0
Wtr. Loss	5.0
Emul	0.45
Size	7.778" CS-8433: 7 3/8" 8696-TD
Log	8200 To 10
CS	To 10
Log Time	9 HOURS
Log No.	3501 CURLEZ
Recorded By	NEVILL
Witness	MESSERS, MERRITT, ROYCE



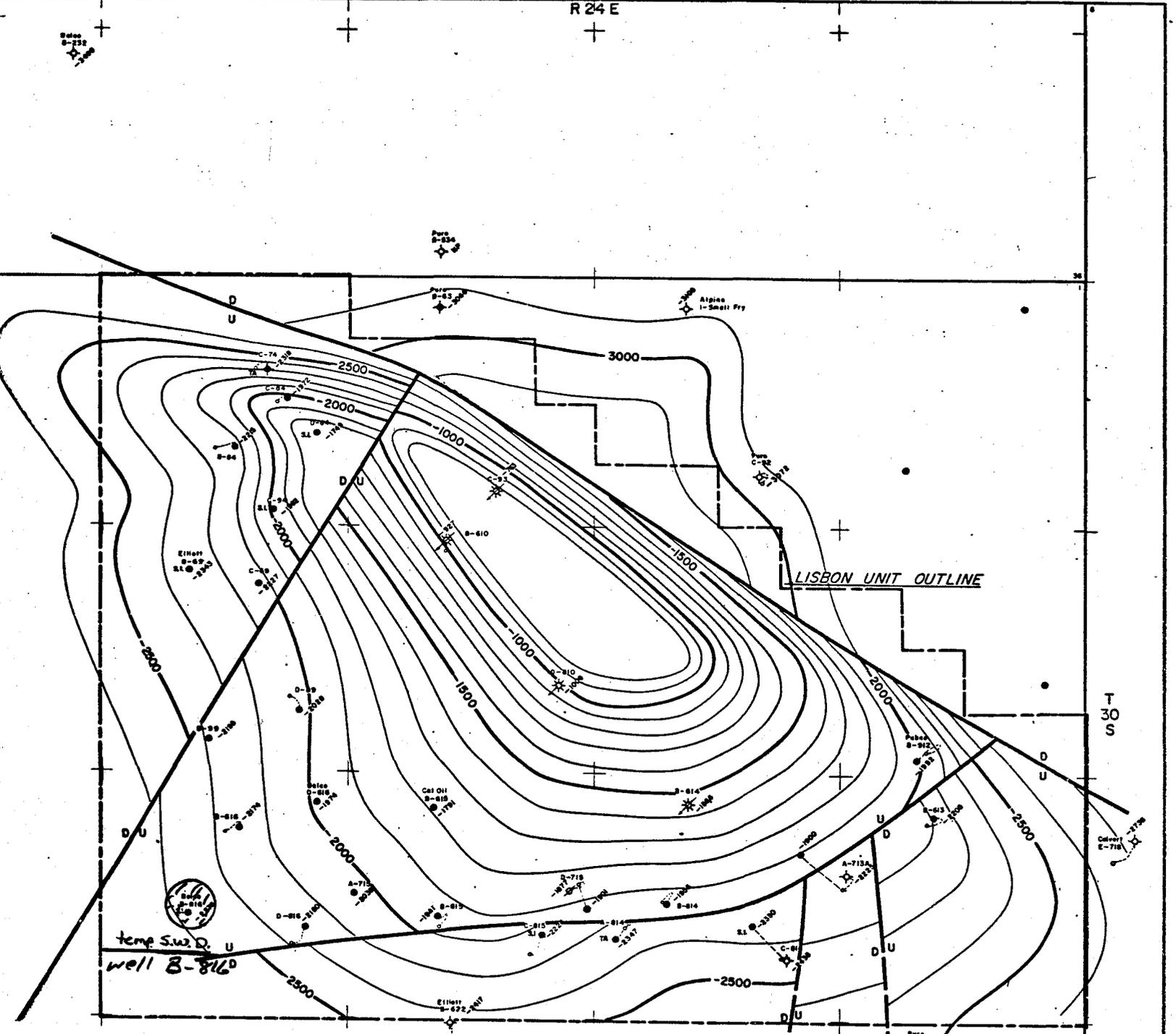
M 8376

8461

8500

8690

R 24 E



LISBON UNIT OUTLINE

T 30 S

temp SWD well B-816

EXISTING SWD well B-624

LEGEND

- OIL WELL
- ⊙ GAS SUCTION WELL
- ⊙ TEMPERARY ABANDONED OIL WELL
- ⊙ SHUT IN OIL WELL
- ⊙ SALT WATER DISPOSAL WELL
- ⊙ LOST HOLE
- ⊙ DRY HOLE
- ⊙ SURFACE LOCATION
- ⊙ SURTHER HOLE LOCATION
- ⊙ UNPLUGGED WELL



NO.	DATE	BY	REVISION
1	7-73	W.A.	INITIAL
2	7-73	W.A.	REVISED
3	7-73	W.A.	REVISED

Union
 Union Oil Company of California
 DURANGO DISTRICT

LISBON FIELD
 SAN JUAN CO., UTAH

STRUCTURE MAP
 TOP MISSISSIPPIAN
 WITH MINIMUM PROBABLE FAULTING
 C.I. = 100'

G.W. & S.W. LEE APR., 1973

SCALE 0 1000 2000 3000

By: G.S. [signature]

LISBON UNIT MAILING LIST

Belco Petroleum Corporation
P. O. Box 19234
Houston, Texas 77024
Attn: Mr. George Nugent

cc: Belco Petroleum Corporation
P. O. Box 250
Big Piney, Wyoming 83113
Attn: Mr. Schuler

Chevron Oil Company
P. O. Box 599
Denver, Colorado 80201
Attn:

CORTERRA Corporation
333 North Michigan Avenue
Chicago, Illinois 60601
Attn: Mr. H. A. Fuente

cc: Mr. H. W. Addington
Petroleum Consultant
Room 670
Petroleum Club Building
Denver, Colorado 80202

Elliott Oil Company
P. O. Box 1355
Roswell, New Mexico 88201
Attn: Mr. Frank Elliott

EXXON Company, U.S.A.
MidContinent Division
P. O. Box 1600
Midland, Texas 79701
Attn: Joint Interest Manager

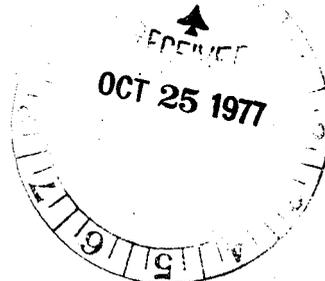
Mr. Bert Gordon
c/o Mr. Chester Gordon
240 Ivanhoe Street
Denver, Colorado 80220

Mr. Chester Gordon
240 Ivanhoe Street
Denver, Colorado 80220

Mr. Donald Gordon
3901 South Bellaire
Englewood, Colorado 80110

Mobil Oil Corporation
Attn: H. C. Patton
Three Greenway Plaza - East
Houston, TX 77046

Quintana Petroleum Corporation
500 Jefferson Building
Houston, TX 77002
Attn: Mr. A. M. Moncrief



Union Oil and Gas Division: Central Region

Union Oil Company of California
Post Office Box 2620, Casper, Wyoming 82601
Telephone (307) 234-1563

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING

DATE: Oct 20, 1977

BY: P. H. Ansell

pd



CIRCULATE TO: Mike T *XMP*
DIRECTOR
PETROLEUM ENGINEER
MINE COORDINATOR
ADMINISTRATIVE ASSISTANT
ALL
RETURN TO Kathy W.
FOR FILING

March 9, 1977

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

United States Geological Survey
P.O. Box 1809
Durango, CO 81301
Attention: Mr. Jerry Long
District Engineer

Gentlemen:

In order to remain in compliance with the United States Geological Survey rules on the handling of water produced with oil and gas should anything happen to the present SWD Well B-624, Union Oil Company of California, Operator, applies for approval to temporarily dispose of water into the Mississippian formation through the wellbore of Lisbon Unit Well B-816 located in the NE SW of Section 16, Township 30 South, Range 24 East, San Juan County, Utah.

Unit Well B-816 would only be used as a backup to the present water disposal well in order to prevent curtailing oil and gas production from the unit. In support of the application to temporarily dispose of water in the Mississippian zone in Well B-816, we show:

- 1) Designated name of proposed disposal well -

Lisbon Unit Well B-816

Location - 1860 FWL and 2250' FSL of Section 16, Township 30 South, Range 24 East, San Juan County, Utah

The well is located on State of Utah Lease - Utah ML 8366

- 2) The source of water to be injected is water to be produced along with oil and gas from the Mississippian formation in the Lisbon Field. The daily quantity of water injected is estimated to be 5200 BWPD. (Water analyses attached)
- 3) The formation into which water is to be injected is the Mississippian reservoir at a depth of 8461 feet to 8505 feet. A copy of a portion of the sonic log showing the injection interval is attached.

- 4) Total dissolved solids for the Mississippian interval are greater than 50,000 ppm as shown in the attached typical water analyses.
- 5) Water sands of the Cedar Mesa member of the Cutler formation would have to be considered usable in the entire Lisbon Unit. Depth to the base of this sand ranges from 1200 feet to 1800 feet. (Geological Survey Bulletin #841)
- 6) Eighteen inch OD conductor pipe was set in a 24" hole at 36 feet and cemented with 20 sacks regular cement containing one sack Cal-seal and one sack calcium chloride.

New 8-5/8" OD, 24#, J-55 casing was set at 2023' and cemented with 410 sacks 50-50 pozmix, 4% gel, 2% HA-5 followed by 100 sacks regular cement containing 2% HA-5 in an 11" hole. The hole was cemented behind pipe with 40 sacks regular cement to bring cement to surface.

New 5-1/2" OD, 17#, N-80 and J-55 was set from surface to 8732 feet in a 7-7/8" hole. The first stage was 125 sacks neat containing 2% gel, 1/4# per sack Flo-seal followed by 1000 cubic feet containing 40% Diacel, 84% salt saturated cement, and 1/4# Flo-seal per cubic foot. Cement top by temperature log is 5000 feet.

- 7) Total depth is 8732 feet, PBD is 8690 feet K.B.
- 8) Proposed completion method includes setting a Baker Lok-Set injection packer at 8167 feet and installing 2-7/8" CS Hydril tubing. Anticipated injection pressure is 2000-3000 psig. Items (6), (7), and (8) are shown schematically on the attached drawing.
- 9) Lisbon Unit Well B-816 was completed in April, 1961 in the Mississippian by Belco Petroleum. The well last pumped 386 BWPD plus 1 BOPD in 1973, and is one of the lowest structured wells in the unit. Current plans are to use this well only as a backup to the present water disposal well. The wellhead pressures will be monitored and injection profiles may be run to insure that the water is confined to the injection interval.

Attached is a structure contour map contoured on the top of the Mississippian. The map shows the location of the present salt water disposal well and the proposed temporary disposal well. Also attached is a list showing the names and addresses of owners within a one-half (1/2) mile radius of the proposed disposal well upon whom notice of this application has been served by mailing a copy of this application. Your early approval is respectfully requested.

Yours very truly,



Harold Simpson
District Operations Manager

MAM: jh
Attachments



ROCKY MOUNTAIN ENGINEERING CO.

WELL LOGGING—CORE AND WATER ANALYSIS

2580-HIGHWAY 6

PHONE CHAPEL 3-3044

GRAND JUNCTION, COLORADO

WATER ANALYSIS

COMPANY THE PURE OIL CO. FORMATION _____
 WELL _____ DEPTHS _____
 COUNTY _____ SAMPLE FROM _____
 STATE _____ DATE _____
 LOCATION _____ REPORT NO. 505

DESCRIPTION OF SAMPLE D-816 /

Constituents	PPM	MEQ	MEQ%
Sodium	12,221	531.55	26.72
Calcium	7101	355.05	17.87
Magnesium	1294	106.50	5.36
Sulfate	480	10.00	0.50
Chloride	34,500	973.20	48.99
Carbonate			
Bicarbonate	610	10.00	0.50
Hydroxide			

Total Solids in Parts per Million

By Evaporation	55,432
After Ignition	55,798
Calculated	56,206

Properties of Reaction in Percent

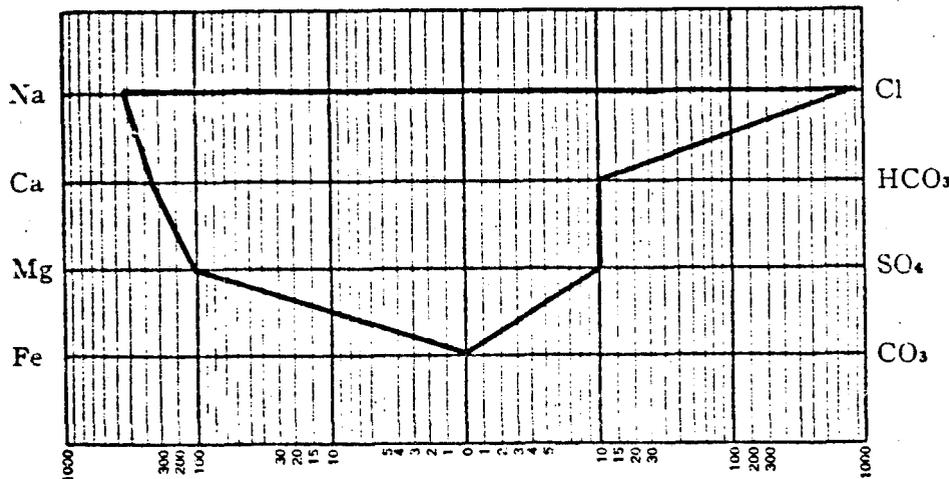
Primary Salinity	53.58
Secondary Salinity	45.42
Primary Alkalinity	0.00
Secondary Alkalinity	1.00
Chloride Salinity	98.99
Sulfate Salinity	1.01

Observed pH 6.8 Resistivity _____
 @ 68°F., ohm-meters
 Chloride as NaCl 31,075 Measured .129

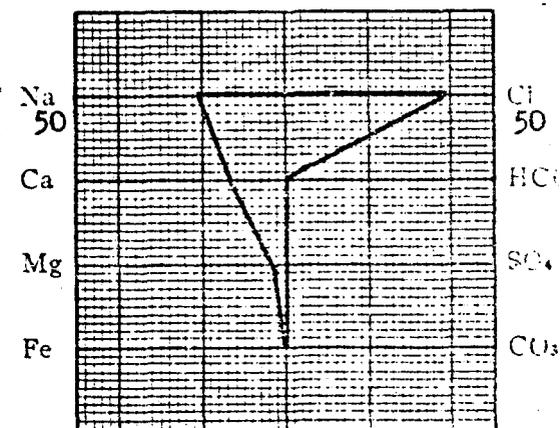
Specific gravity @ 70°F. 1.020

WATER ANALYSIS PATTERNS MEQ per unit

Logarithmic



Standard



CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794
Casper, Wyoming

WATER ANALYSIS REPORT

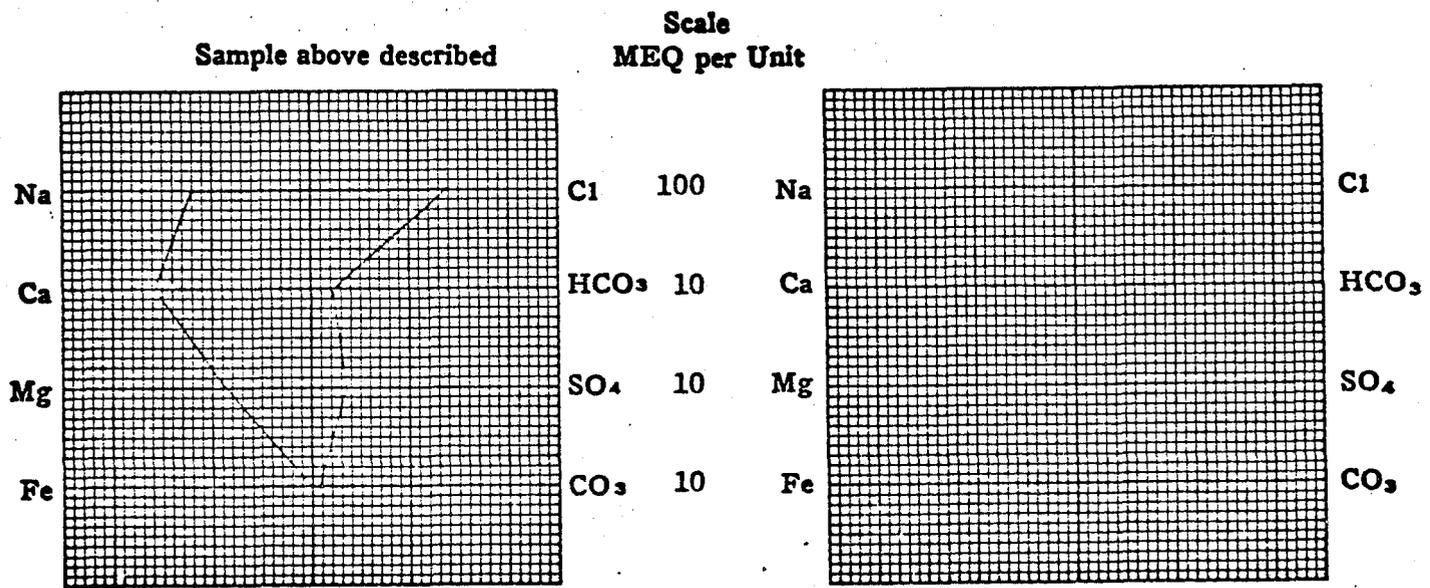
OPERATOR <u>Union Oil Co. of Calif.</u>	DATE <u>Oct. 23, 1972</u>	LAB NO. <u>8905</u>
WELL NO. <u>B-814</u>	LOCATION <u>Sec. 14-30S-24E</u>	
FIELD <u>Lisbon</u>	FORMATION <u>Mississippian</u>	
COUNTY <u>San Juan</u>	INTERVAL _____	
STATE <u>Utah</u>	SAMPLE FROM <u>Production water</u>	

REMARKS & CONCLUSIONS: Cloudy water with clear filtrate

<u>Cations</u>	<u>mg/l</u>	<u>meq/l</u>	<u>Anions</u>	<u>mg/l</u>	<u>meq/l</u>
Sodium	<u>26283</u>	<u>1143.30</u>	Sulfate	<u>1720</u>	<u>35.78</u>
Potassium	<u>1800</u>	<u>46.08</u>	Chloride	<u>48500</u>	<u>1367.70</u>
Lithium	_____	_____	Carbonate	<u>204</u>	<u>6.79</u>
Calcium	<u>3136</u>	<u>156.49</u>	Bicarbonate	<u>1171</u>	<u>19.20</u>
Magnesium	<u>1017</u>	<u>83.60</u>	Hydroxide	---	---
Iron	<u>Present</u>	<u>Present</u>	Hydrogen sulfide	<u>Present</u>	<u>Present</u>
Total Cations			Total Anions		
_____			_____		
<u>1429.47</u>			<u>1429.47</u>		

Total dissolved solids, mg/l	<u>83237</u>	Specific resistance @ 68°F.:
NaCl equivalent, mg/l	<u>83029</u>	Observed
Observed pH	<u>8.6</u>	<u>0.11</u> ohm-meters
		Calculated
		<u>0.10</u> ohm-meters

WATER ANALYSIS PATTERN



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

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.

1. Type of Well

Oil Well Gas Well Other

5. Lease Designation and Serial No.

6. If Indian, Allotte or Tribe Name

7. Unit Agreement Name

8. Well Name and Number

2. Name of Operator: EnCana Oil & Gas (USA) Inc.
(successor in interest of Tom Brown, Inc. effective 1/1/05)

Contact: Jane Washburn
Phone: 720/876-5431

9. API Well Number

3. Address and Telephone No.

370 Seventeenth Street, Suite 1700, Denver, CO 80202

10. Field and Pool, or Exploratory Area

4. Location of Well

Footages: **SEE ATTACHED LIST OF WELLS**

County:

QQ, Sec T,R,M:

State:

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

NOTICE OF INTENT
(Submit in Duplicate)

SUBSEQUENT REPORT
(Submit Original Form Only)

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

- Abandon*
- Repair Casing
- Change Plans
- Convert to Injection
- Fracture Treat or Acidize
- New Construction
- Pull or Alter Casing
- Recomplete
- Reperforate
- Vent or Flare
- Water Shut-Off

Other Change of Operator

Approximate date work will start _____

Date of work completion _____

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

* Must be accompanied by a cement verification report.

12. Describe Proposed or completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof.

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

N9885 N2175

The merger of Tom Brown, Inc. with EnCana Oil & Gas (USA) Inc. was effective January 1, 2005. It is, therefore, requested that the Operator of all properties on the attached list be changed from Tom Brown, Inc. to EnCana Oil & Gas (USA) Inc.

RECEIVED
JAN 21 2005

DIV. OF OIL, GAS & MINING

13. Name (Printed/Typed) Jane Washburn	Title Operations Engineering Tech
Signature <i>Jane Washburn</i>	Date 01/24/2005

(This space for State use only)

APPROVED 2/24/05
ER
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

tom brown to encana.xls

well name	sec	twsp	rng	api	entity	lease	well	stat	flag	unit name	lease num	qtr	qtr	td	md	d	apd	op no
BIG INDIAN 36-42	36	290S	240E	4303731827		State	GW	APD			ST-UT-37067	SESW				5750		N9885
FEDERAL 14-18	18	250S	060E	4301530060	436	Federal	NA	PA			UTU-69447	SWSW						N9885
NW USA D-1 (B-624)	24	300S	240E	4303716516	99990	Federal	WD	A			UTU-070034	NENW						N9885
FEDERAL 15-25	25	290S	230E	4303730317	4776	Federal	GW	S			UTU-986	SWSE						N9885
BIG INDIAN 35-24	35	290S	240E	4303731829	14409	Federal	GW	DRL	C		UTU-077077	SENE						N9885
BIG INDIAN 27-34	27	290S	240E	4303731828		Federal	GW	APD	C		N9885							
BIG INDIAN UNIT 1	33	290S	240E	4303716219	8122	Federal	OW	S		BIG INDIAN	UTSL-067131	SENE						N9885
BIG INDIAN 4	14	300S	250E	4303716221	8124	Federal	GW	TA		BIG INDIAN	UTSL-089097	SWSW						N9885
BIG INDIAN 34-11	34	290S	240E	4303731818	14004	Federal	D	PA	C	BIG INDIAN	UTU-014905	NWNW						N9885
BULL HORN U 10-43	10	300S	250E	4303731831	14393	Federal	GW	DRL	C	BULL HORN	UT-73190	SWSE						N9885
LISBON B-615	15	300S	240E	4303715123	8123	Federal	OW	P		LISBON	UTU-09179	NENW						N9885
LISBON FED 2-21F	21	300S	250E	4303715768	410	Federal	GW	S		LISBON	UTU-094674	SENE						N9885
LISBON B912	12	300S	240E	4303715769	8123	Federal	OW	S		LISBON	UTU-06922	SESW						N9885
LISBON A-713A	13	300S	240E	4303716236	8123	Federal	GW	PA		LISBON	UTSL-070034	SWNW						N9885
LISBON A-715	15	300S	240E	4303716237	8123	Federal	WD	A		LISBON	UTU-020691A	SWNW						N9885
LISBON B-613	13	300S	240E	4303716240	8123	Federal	OW	S		LISBON	UTSL-070034	NENW						N9885
LISBON C-69	09	300S	240E	4303716245	8123	Federal	OW	S		LISBON	UTU-09179	NWNE						N9885
LISBON C-94	04	300S	240E	4303716247	8123	Federal	OW	S		LISBON	UTU-66582	SWSE						N9885
LISBON UNIT D-84	04	300S	240E	4303716250	8123	Federal	OW	P		LISBON	UTU-015445	NESE						N9885
LISBON D-89	09	300S	240E	4303716251	8123	Federal	OW	P		LISBON	UTU-015445	NESE						N9885
NW LISBON USA B-1 (B-614)	14	300S	240E	4303716468	8123	Federal	OW	P		LISBON	UTSL-070008A	NENW						N9885
NW LISBON USA A-2 (D-810)	10	300S	240E	4303716471	8123	Federal	GW	P		LISBON	UTU-14903	NESE						N9885
LISBON B-84	04	300S	240E	4303730054	8123	Federal	OW	S		LISBON	UTU-09179	NESW						N9885
LISBON B-814	14	300S	240E	4303730082	8123	Federal	OW	S		LISBON	UTSL-070008A	NESW						N9885
LISBON C-99	09	300S	240E	4303730693	8123	Federal	OW	P		LISBON	UTU-09179	SWSE						N9885
LISBON B-94	04	300S	240E	4303730695	8123	Federal	OW	S		LISBON	UTU-015445	SESW						N9885
LISBON C-910 I	10	300S	240E	4303731805	12892	Federal	D	PA		LISBON	UTU-0141903	SWSE						N9885
LISBON D-616	16	300S	240E	4303715049	8123	State	OW	P		LISBON	ML-13692	NENE	9120	9120				N9885
LISBON B-616	16	300S	240E	4303716242	8123	State	OW	S		LISBON	ML-8366	NESW	8689	8689				N9885
BELCO ST 4 (LISBON B-816)	16	300S	240E	4303716244	8123	State	WD	A		LISBON	ML-8366	NESW	8730	9100				N9885
LISBON UNIT D-716	16	300S	240E	4303731034	8123	State	OW	P		LISBON	ML-13692	SENE	8794	8775				N9885
LISBON U B-610	10	300S	240E	4303716469	8123	Federal	OW	P		LISBON (MCCRACKEN)	UTU-014903	NENW						N9885
LISBON U B-610	10	300S	240E	4303716469	9740	Federal	OW	P		LISBON (MCCRACKEN)	UTU-014903	NENW						N9885
LISBON U D-610	10	300S	240E	4303730694	9740	Federal	GW	P		LISBON (MCCRACKEN)	UTU-014903	NENE						N9885
LISBON UNIT A-911	11	300S	240E	4303731014	9740	Federal	GW	P		LISBON (MCCRACKEN)	UTSL-070008A	SWSW						N9885
LISBON C-910	10	300S	240E	4303731323	9740	Federal	OW	P		LISBON (MCCRACKEN)	UTU-014903	SWSE						N9885
LISBON B-614A	14	300S	240E	4303731351	9740	Federal	OW	TA		LISBON (MCCRACKEN)	UTSL-070008A	NENW						N9885
LISBON B-810	10	300S	240E	4303731433	9740	Federal	OW	P		LISBON (MCCRACKEN)	UTU-014903	NESW						N9885
LISBON (MCCRACKEN) D-615	15	300S	240E	4303731817		Federal	OW	LA		LISBON (MCCRACKEN)	N9885							
LISBON (MCCRACKEN) A-610	10	300S	240E	4303731821		Federal	OW	LA		LISBON (MCCRACKEN)	N9885							

Delaware

PAGE 1

The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"TBI PIPELINE COMPANY", A DELAWARE CORPORATION,

"TBI WEST VIRGINIA, INC.", A DELAWARE CORPORATION,

"TOM BROWN, INC.", A DELAWARE CORPORATION,

WITH AND INTO "ENCANA OIL & GAS (USA) INC." UNDER THE NAME OF "ENCANA OIL & GAS (USA) INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TWENTY-SECOND DAY OF DECEMBER, A.D. 2004, AT 6:15 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF MERGER IS THE FIRST DAY OF JANUARY, A.D. 2005.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



2137895 8100M

040934710

Harriet Smith Windsor

Harriet Smith Windsor, Secretary of State

AUTHENTICATION: 3584585

DATE: 12-29-04

State of Delaware
Secretary of State
Division of Corporations
Delivered 06:15 PM 12/22/2004
FILED 06:15 PM 12/22/2004
SRV 040934710 - 2137895 FILE

**STATE OF DELAWARE
CERTIFICATE OF MERGER OF
DOMESTIC CORPORATIONS**

Pursuant to Title 8, Section 251(c) of the Delaware General Corporation Law, the undersigned corporation executed the following Certificate of Merger:

FIRST: The name of the surviving corporation is EnCana Oil & Gas (USA) Inc., and the names and jurisdictions of the corporations being merged into this surviving corporation are as follows:

<u>Name</u>	<u>Jurisdiction of Incorporation</u>
Tom Brown, Inc.	Delaware corporation
TBI Pipeline Company	Delaware corporation
TBI West Virginia, Inc.	Delaware corporation

SECOND: The Agreement and Plan of Merger has been approved, adopted, certified, executed and acknowledged by each of the constituent corporations.

THIRD: The name of the surviving corporation is EnCana Oil & Gas (USA) Inc., a Delaware corporation.

FOURTH: The Certificate of Incorporation of the surviving corporation shall be its Certificate of Incorporation.

FIFTH: The merger is to become effective on January 1, 2005.

SIXTH: The Agreement and Plan of Merger is on file at 950 17th Street, Suite 2600, Denver, Colorado 80202, the place of business of the surviving corporation.

SEVENTH: A copy of the Agreement and Plan of Merger will be furnished by the surviving corporation on request, without cost, to any stockholder of the constituent corporations.

IN WITNESS WHEREOF, said surviving corporation has caused this certificate to be signed by an authorized officer, the 17th day of December, A.D., 2004.

ENCANA OIL & GAS (USA) INC.

By: 
Mary A. Viviano, Secretary

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 Lisbon B-816		API Number 4303716244
Location of Well Footage : 2250 FSL, 1860 FWL		Field or Unit Name LISBON
County : SAN JUAN	State : UTAH	Lease Designation and Number ML-8366
QQ, Section, Township, Range: NESW 16 30S 24E		

EFFECTIVE DATE OF TRANSFER: 1/1/2005

CURRENT OPERATOR

Company: Tom Brown, Inc.
Address: 555 17th Street, Suite 1850
city Denver state CO zip 80202
Phone: (720) 876-5157
Comments:

Name: Darrin Henke
Signature: *[Handwritten Signature]*
Title: Attorney-in-fact
Date: 2/17/2005

NEW OPERATOR

Company: EnCana Oil & Gas (USA) Inc.
Address: 370 17th Street, Suite 1700
city Denver state CO zip 80202
Phone: (720) 876-5068
Comments:

Name: Doug VanSteelandt
Signature: *[Handwritten Signature]*
Title: Attorney-in-fact
Date: 2/17/2005

(This space for State use only)

Transfer approved by: *[Handwritten Signature]*
Title: *[Handwritten Title]*

Approval Date: 2-23-05

Comments: *[Handwritten Comment]*

RECEIVED
FEB 23 2005

DIV. OF OIL, GAS & MINING

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 not yet BIA

8. **Federal and Indian Units:**

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

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

The BLM or BIA has approved the operator for all wells listed within a CA on: 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: 2/24/2005
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 2/24/2005
3. Bond information entered in RBDMS on: 2/24/2005
4. Fee/State wells attached to bond in RBDMS on: 2/24/2005
5. Injection Projects to new operator in RBDMS on: 2/24/2005
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: UT1005

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 RLB0007875

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:

Merger and rider of bond from Tom Brown, Inc.

INJECTION WELL - PRESSURE TEST

Well Name: <u>B 816</u>	API Number: <u>43-037-16244</u>
Qtr/Qtr: <u>NESW</u> Section: <u>16</u>	Township: <u>30S</u> Range: <u>24E</u>
Company Name: <u>Tom Brown</u>	
Lease: State <u>X</u> Fee _____	Federal _____ Indian _____
Inspector: <u>Mark Jones</u>	Date: <u>June 11, 2003</u>

Initial Conditions:

Tubing - Rate: 2235 BPD Pressure: 40 # psi

Casing/Tubing Annulus - Pressure: 240 # psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0	<u>1000 #</u>	<u>40 #</u>
5	_____	_____
10	_____	_____
15	<u>1000 #</u>	<u>40 #</u>
20	_____	_____
25	_____	_____
30	_____	_____

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: _____ psi

Casing/Tubing Annulus Pressure: _____ psi

COMMENTS: Pressure Tested to 1000 #

MIT Passed

Operator Representative _____

Utah

COPY

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill, or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <i>WD</i>		5. Lease Serial No. <i>MH-8366</i>
2. Name of Operator: EnCana Oil & Gas (USA) Inc.		6. If Indian, Allotte or Tribe Name NA
3. Address and Telephone No. 370 Seventeenth Street, Suite 1700, Denver, CO 80202		7. If Unit or CA/Agreement Designation Lisbon
4. Location of Well (Footage, T, R, M, or Survey Description) NESW Sec 16-T30S-R24E 2250' FSL, 1850' FWL		8. Well Name and No. Lisbon B-816
12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		9. API Well No. 43-037-16244
11. County or Parish, State San Juan, Utah		10. Field and Pool, or Exploratory Area Lisbon

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (start/resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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

EnCana Oil & Gas (USA) Inc. treated the Mississippian perms 8451-8679 on April 22, 2005 on the Lisbon B-816 as follows: Injected 6000 gal of 15% HCL + additives. Max pressure 1000 psi. Dropped bioballs every 1500 gals. Displaced with injection water. Returned to operations.

RECEIVED
MAY 12 2005
DIV. OF OIL, GAS & MINING

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

Name (Printed/Typed) Jane Washburn	Title Operations Engineering Tech
Signature <i>Jane Washburn</i>	Date 05/06/2005

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

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

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



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

June 7, 2010

EnCana Oil & Gas (USA) Inc.
370 17th St, STE 1700
Denver, CO 802025632

SUBJECT: Pressure Test for Mechanical Integrity, Multiple Wells, San Juan County, Utah:

To Whom It May Concern:

The Underground Injection Control Program, which the Division of Oil, Gas and Mining (DOGM) administers in Utah, requires that all Class II injection wells demonstrate mechanical integrity. Rule R649-5-5.3 of the Oil and Gas Conservation General Rules requires that the casing-tubing annulus above the packer be pressure tested at a pressure equal to the maximum authorized injection pressure or 1,000 psi, whichever is lesser, provided that no test pressure is less than 300 psi. This test shall be performed at least every five-year period beginning October 1982. The following wells now require a current test:

→ Lisbon A-715	43-037-16237			
Belco St 4 (Lisbon B-816)	43-037-16244	30S	2AE	16
Lisbon B-814	43-037-30082			

Please make arrangements and ready wells for testing during the week of July 19th 2010, as outlined below:

1. Operator must furnish connections, and accurate pressure gauges, hot oil truck (or other means of pressuring annulus), along with personnel to assist in opening valves, etc.
2. The casing-tubing annulus shall be filled prior to the test date to expedite testing, as each well will be required to hold pressure for a minimum of 15 minutes.
3. If mechanical difficulties or workover operations make it impossible for the well(s) to be tested on this date the test(s) may be rescheduled.
4. Company personnel should meet a DOGM representative(s) at the field office or other location as negotiated.



Page 2
June 7, 2010
EnCanna Oil & Gas (USA) Inc.

5. All bradenhead valves with exception of the tubing on the injection well(s) must be shut-in 24 hours prior to testing.

Please contact me at (435) 820-0862 to arrange a meeting time and place or to negotiate a different date, if the date(s) specified is unacceptable.

Sincerely,

A handwritten signature in black ink, appearing to read 'Bart Kettle', with a long horizontal flourish extending to the right.

Bart Kettle
Environmental Scientist

bk/dj/js

cc: Dan Jarvis, Operations Manager
Well File

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:

5/14/2010

FROM: (Old Operator): N2175-EnCana Oil & Gas (USA) Inc. 370 17th Street, Suite 1700 Denver, CO 80202 Phone: 1 (303) 623-2300	TO: (New Operator): N3670-Patara Oil & Gas, LLC 333 Clay Street, Suite 3960 Houston, TX 77002 Phone: 1 (713) 357-7171
---	---

CA No.

Unit:

LISBON

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

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 5/11/2010
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 5/11/2010
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 5/11/2010
- a. Is the new operator registered in the State of Utah: Business Number: 7655540-0161
- 5a. (R649-9-2)Waste Management Plan has been received on: * * requested 9/27/10
- 5b. Inspections of LA PA state/fee well sites complete on: * * requested 9/27/10
- 5c. Reports current for Production/Disposition & Sundries on: ok
- 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
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: 6/28/2010 & 9/2/2010
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
- Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to **Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 6/29/2010
Lisbon B-816 only

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 9/14/2010
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 9/14/2010
- Bond information entered in RBDMS on: 9/14/2010
- Fee/State wells attached to bond in RBDMS on: 9/14/2010
- Injection Projects to new operator in RBDMS on: 9/14/2010
- Receipt of Acceptance of Drilling Procedures for APD/New on: 5/11/2010

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: UTB000428
- Indian well(s) covered by Bond Number: n/a
- a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number RLB0013207 & B006008
- b. The **FORMER** operator has requested a release of liability from their bond on: not yet

LEASE INTEREST OWNER NOTIFICATION:

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

COMMENTS:

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER:
2. NAME OF OPERATOR: ENCANA OIL & GAS (USA) INC. <i>N2175</i>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 370 17th Street, Suite 1700 CITY Denver STATE CO ZIP 80202		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: See Attached List		8. WELL NAME and NUMBER:
PHONE NUMBER: (303) 623-2300		9. API NUMBER:
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		10. FIELD AND POOL, OR WLD/CAT:

COUNTY:

STATE:

UTAH

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

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

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

Effective May 4, 2010 Patara Oil & Gas LLC, 333 Clay Street, Suite 3960, Houston, TX 77002, will take over completions and operations and is designated as agent operator for the subject wells on the attached list.

Bond coverage for all activities will be covered by Patara's BLM Statewide Oil & Gas Bond No. UTB000428 and UDOGM Bond No. Pending. *RLB0013207 + B006008*

Patara Oil & Gas LLC, Lane M. Kincannon, Vice-President, Land & Business Development *N3670*

Signature *[Signature]* Date 5/4/2010

NAME (PLEASE PRINT) <u>Ricardo D. Gallegos</u>	TITLE <u>Attorney-in-Fact</u>
SIGNATURE <i>[Signature]</i>	DATE <u>5/4/2010</u>

(This space for State use only)

APPROVED 9/14/2010
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

RECEIVED
May 11 2010 ER
DIV. OF OIL, GAS & MINING

(5/2000)

ENCANA O-G (N2175) to PATARA O-G (N3670)
effective May 4, 2010
LISBON UNIT

well_name	sec	twp	rng	api	entity	lease	well	stat	C
LISBON D-616	16	300S	240E	4303715049	8123	State	OW	S	
LISBON B-615	15	300S	240E	4303715123	8123	Federal	OW	P	
LISBON B912	12	300S	240E	4303715769	8123	Federal	OW	S	
LISBON A-715	15	300S	240E	4303716237	8123	Federal	WD	I	
LISBON B-613	13	300S	240E	4303716240	8123	Federal	OW	S	
LISBON B-616	16	300S	240E	4303716242	8123	State	OW	S	
BELCO ST 4 (LISBON B-816)	16	300S	240E	4303716244	8123	State	WD	A	
LISBON C-69	09	300S	240E	4303716245	8123	Federal	OW	S	
LISBON C-94	04	300S	240E	4303716247	8123	Federal	OW	S	
LISBON UNIT D-84	04	300S	240E	4303716250	8123	Federal	OW	P	
LISBON D-89	09	300S	240E	4303716251	8123	Federal	OW	S	
NW LISBON USA A-2 (D-810)	10	300S	240E	4303716471	8123	Federal	GW	P	
LISBON B-84	04	300S	240E	4303730054	8123	Federal	OW	S	
LISBON B-814	14	300S	240E	4303730082	8123	Federal	WD	A	
LISBON C-99	09	300S	240E	4303730693	8123	Federal	OW	S	
LISBON B-94	04	300S	240E	4303730695	8123	Federal	OW	S	
LISBON UNIT A-911	11	300S	240E	4303731014	8123	Federal	GW	P	
LISBON UNIT D-716	16	300S	240E	4303731034	8123	State	OW	S	
LISBON C-910	10	300S	240E	4303731323	8123	Federal	OW	S	
LISBON B-614A	14	300S	240E	4303731351	8123	Federal	OW	S	
LISBON B-810	10	300S	240E	4303731433	8123	Federal	OW	P	



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155
<http://www.blm.gov/ut/st/en.html>



IN REPLY REFER TO
3180
UT-922

June 28, 2010

David M. Laramie
Patara Oil & Gas, LLC
621 17th Street, Suite 1345
Denver, CO 80293

Re: Successor Operator
Lisbon Unit, UTU630370
San Juan County, Utah

Dear Mr. Laramie:

On June 25, 2010, we received an indenture dated May 4, 2010, whereby EnCana Oil & Gas (USA), Inc. resigned as Unit Operator and Patara Oil & Gas, LLC was designated as Successor Unit Operator for the Lisbon Unit, San Juan County, Utah. The indenture was executed by both parties and the signatory parties (working interest owners) have complied with Sections 5 and 6 of the unit agreement.

The instrument is hereby approved effective June 28, 2010. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Lisbon Unit Agreement.

Your statewide oil and gas BLM Bond No. UTB000428 will be used to cover unit operations.

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

If you have any questions, contact Leslie Wilcken of this office at (801) 539-4112.

Sincerely,

/s/ Roger L. Bankert

Roger L. Bankert
Chief, Branch of Minerals

RECEIVED

JUL 06 2010

DIV. OF OIL, GAS & MINING

Enclosure

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

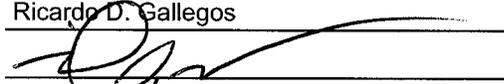
UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

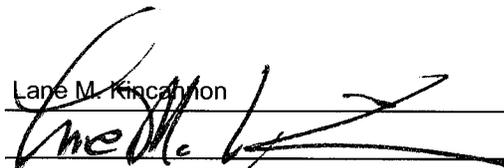
Well Name and Number Lisbon B-816	API Number 4303716244
Location of Well Footage : 2250' FSL & 1860' FWL County : San Juan QQ, Section, Township, Range: NESW 16 30S 24E State : UTAH	Field or Unit Name Lisbon Lease Designation and Number ML-8366

EFFECTIVE DATE OF TRANSFER: 5/4/2010

CURRENT OPERATOR

Company: ENCANA OIL & GAS (USA) INC. N2175 Name: Ricardo D. Gallegos
Address: 370 17th Street, Suite 1700 Signature: 
city Denver state CO zip 80202 Title: Attorney-in-Fact
Phone: (303) 623-2300 Date: 5/4/2010
Comments:

NEW OPERATOR

Company: Patara Oil & Gas LLC N3670 Name: Lane M. Kincannon
Address: 333 Clay Street, Suite 3960 Signature: 
city Houston state TX zip 77002 Title: Vice-President, Land & Business Developme
Phone: (713) 357-7171 Date: 5/4/2010
Comments:

(This space for State use only)

Transfer approved by: 
Title: UIC Geologist

Approval Date: 6/29/10

Comments:

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:

11/1/2012

FROM: (Old Operator): N3670- Patara Oil & Gas, LLC 600 17th Street, Suite 1900S Denver, CO 80202 Phone: 1 (303) 825-0685	TO: (New Operator): N3645- CCI Paradox Upstream, LLC 600 17th Street, Suite 1900S Denver, CO 80202 Phone: 1 (303) 825-0685
---	--

CA No.		Unit:		Lisbon				
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

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 1/23/2013
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 2/7/2013
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 2/12/2013
- Is the new operator registered in the State of Utah: Business Number: 8523441-0161
- (R649-9-2)Waste Management Plan has been received on: Not Yet
- Inspections of LA PA state/fee well sites complete on: N/A
- Reports current for Production/Disposition & Sundries on: 2/12/2013
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM Not Yet BIA N/A
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: Not Yet
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
- Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to **Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 2/6/2013

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 2/12/2013
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 2/12/2013
- Bond information entered in RBDMS on: 2/7/2013
- Fee/State wells attached to bond in RBDMS on: 2/12/2013
- Injection Projects to new operator in RBDMS on: N/A
- Receipt of Acceptance of Drilling Procedures for APD/New on: 2/4/2013

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: 105865919
- Indian well(s) covered by Bond Number: N/A
- (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 105865922
- The **FORMER** operator has requested a release of liability from their bond on: N/A

LEASE INTEREST OWNER NOTIFICATION:

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

COMMENTS:

Patara Oil Gas, LLC (N3670) to CCI Paradox Upstream, LLC (N3945)

Effective 11/1/2012

Lisbon Unit

Well Name	Section	TWN	RNG	API Number	Entity	Lease Type	Well Type	Well Status
BELCO ST 4 (LISBON B-816)	16	300S	240E	4303716244	8123	State	WD	A
LISBON B-814	14	300S	240E	4303730082	8123	Federal	WD	A
LISBON A-715	15	300S	240E	4303716237	8123	Federal	WD	I
LISBON B-613	13	300S	240E	4303716240	8123	Federal	OW	P
NW LISBON USA A-2 (D-810)	10	300S	240E	4303716471	8123/9740	Federal	GW	P
LISBON UNIT A-911	11	300S	240E	4303731014	8123	Federal	GW	P
LISBON B-614A	14	300S	240E	4303731351	9740	Federal	OW	P
LISBON B-810	10	300S	240E	4303731433	9740	Federal	OW	P
LISBON B-615	15	300S	240E	4303715123	8123	Federal	OW	S
LISBON B912	12	300S	240E	4303715769	8123	Federal	OW	S
LISBON C-69	09	300S	240E	4303716245	8123	Federal	OW	S
LISBON C-94	04	300S	240E	4303716247	8123	Federal	OW	S
LISBON UNIT D-84	04	300S	240E	4303716250	8123	Federal	OW	S
LISBON D-89	09	300S	240E	4303716251	8123	Federal	OW	S
LISBON B-84	04	300S	240E	4303730054	8123	Federal	OW	S
LISBON C-99	09	300S	240E	4303730693	8123	Federal	OW	S
LISBON B-94	04	300S	240E	4303730695	8123	Federal	OW	S
LISBON C-910	10	300S	240E	4303731323	8123	Federal	OW	S

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JAN 23 2013

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.

1. TYPE OF WELL: OIL WELL [] GAS WELL [] OTHER Multiple Well Transfer
2. NAME OF OPERATOR: Patara Oil & Gas LLC
3. ADDRESS OF OPERATOR: 600 17th St. Ste. 1900S Denver CO 80202
4. LOCATION OF WELL: FOOTAGES AT SURFACE: n/a COUNTY: San Juan, UT STATE: UTAH

5. LEASE DESIGNATION AND SERIAL NUMBER: n/a
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: n/a
7. UNIT or CA AGREEMENT NAME: n/a
8. WELL NAME and NUMBER: Multiple
9. API NUMBER: n/a
10. FIELD AND POOL, OR WILDCAT: n/a

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

Table with columns: TYPE OF SUBMISSION, TYPE OF ACTION. Includes checkboxes for NOTICE OF INTENT, SUBSEQUENT REPORT, and various actions like ACIDIZE, ALTER CASING, OPERATOR CHANGE, etc.

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

Patara Oil & Gas LLC (Patara) hereby requests the transfer of operating rights and responsibilities for the subject wells, listed herein, to the new owner/operator of the assets, being effective November 1, 2012; CCI Paradox Upstream LLC (CCI).

Please see Exhibit I for a detailed list of upstream assets considered for transfer. Patara midstream assets will be transferred via a separate letter, enclosed.

NAME (PLEASE PRINT) Christopher A. Noonan TITLE Regulations & Production Reporting Supervisor
SIGNATURE [Signature] DATE 1/18/13

(This space for State use only)

APPROVED

FEB 12 2013

DIV. OF OIL, GAS & MINING

(See Instructions on Reverse Side)

BY: Rachel Medina

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Multiple Well Transfer</u>		5. LEASE DESIGNATION AND SERIAL NUMBER: n/a
2. NAME OF OPERATOR: CCI Paradox Upstream LLC <u>N3945</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: n/a
3. ADDRESS OF OPERATOR: 600 17th St. Ste. 1900S CITY <u>Denver</u> STATE <u>CO</u> ZIP <u>80202</u>		7. UNIT or CA AGREEMENT NAME: n/a
4. LOCATION OF WELL FOOTAGES AT SURFACE: <u>n/a</u>		8. WELL NAME and NUMBER: <u>Multiple</u>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		9. API NUMBER: n/a
		10. FIELD AND POOL, OR WILDCAT: n/a
		COUNTY: <u>San Juan, UT</u>
		STATE: <u>UTAH</u>

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

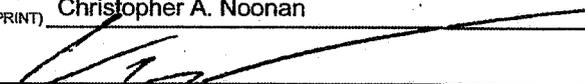
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: <u>11/1/2012</u>	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

CCI Paradox Upstream LLC (CCI), hereby requests the transfer of operating rights and responsibilities for the subject wells, listed herein, to the new owner/operator of the assets, CCI, being effective November 1, 2012. The assets were previously operated by Patara Oil & Gas LLC (Patara) prior to sale.

Please see Exhibit I for a detailed list of upstream assets considered for transfer. Patara midstream assets will be transferred via a separate letter, enclosed.

Bond Number:
BLM: 105865919
State: 105865922

NAME (PLEASE PRINT) <u>Christopher A. Noonan</u>	TITLE <u>Regulations & Production Reporting Supervisor</u>
SIGNATURE 	DATE <u>2/6/2012</u>

(This space for State use only)

APPROVED

FEB 12 2013

DIV. OIL GAS & MINING

BY: Rachel Medina

RECEIVED

FEB 07 2013

Div. of Oil, Gas & Mining

Exhibit I

BLM Form 3160-5 Transfer of Operator

Utah Form 9 Transfer of Operator

State of Utah Upstream Assets

01/09/2013

API Well Number	Operator	Well Name	Well Status	Well Type	Field Name	County	Qtr/Qtr	Section	Township-Range)
✓ 43-037-15049-00-00	PATARA OIL & GAS LLC	LISBON D-616	Shut-In	Oil Well	LISBON	SAN JUAN	NENE	16	30S-24E 1
✓ 43-037-15123-00-00	PATARA OIL & GAS LLC	LISBON B-615	Producing	Oil Well	LISBON	SAN JUAN	NENW	15	30S-24E 2
✓ 43-037-15769-00-00	PATARA OIL & GAS LLC	LISBON B912	Shut-In	Oil Well	LISBON	SAN JUAN	SESW	12	30S-24E 3
✓ 43-037-16219-00-00	PATARA OIL & GAS LLC	BIG INDIAN UNIT 1	Shut-In	Oil Well	BIG INDIAN (MADISON)	SAN JUAN	SENE	33	29S-24E 4
✓ 43-037-16221-00-00	PATARA OIL & GAS LLC	BIG INDIAN 4	Shut-In	Gas Well	BIG INDIAN (HERMOSA)	SAN JUAN	SWSW	14	30S-25E 5
✓ 43-037-16237-00-00	PATARA OIL & GAS LLC	LISBON A-715	Inactive	Water Disposal Well	LISBON	SAN JUAN	SWNW	15	30S-24E 6
✓ 43-037-16240-00-00	PATARA OIL & GAS LLC	LISBON B-613	Shut-In	Oil Well	LISBON	SAN JUAN	NENW	13	30S-24E 7
✓ 43-037-16242-00-00	PATARA OIL & GAS LLC	LISBON B-616	Shut-In	Oil Well	LISBON	SAN JUAN	NESW	16	30S-24E 8
✓ 43-037-16244-00-00	PATARA OIL & GAS LLC	BELCO ST 4 (LISBON B-816)	Active	Water Disposal Well	LISBON	SAN JUAN	NESW	16	30S-24E 9
✓ 43-037-16245-00-00	PATARA OIL & GAS LLC	LISBON C-69	Shut-In	Oil Well	LISBON	SAN JUAN	NWNE	9	30S-24E 10

✓ 43-037-16247-00-00	PATARA OIL & GAS LLC	LISBON C-94	Shut-In	Oil Well	LISBON	SAN JUAN	SWSE	4	30S-24E 11
✓ 43-037-16250-00-00	PATARA OIL & GAS LLC	LISBON UNIT D-84	Shut-In	Oil Well	LISBON	SAN JUAN	NESE	4	30S-24E 12
✓ 43-037-16251-00-00	PATARA OIL & GAS LLC	LISBON D-89	Shut-In	Oil Well	LISBON	SAN JUAN	NESE	9	30S-24E 13
43-037-16469-00-00	PATARA OIL & GAS LLC	LISBON U B-610	Producing	Oil Well	LISBON	SAN JUAN	NENW	10	30S-24E 14
43-037-16471-00-00	PATARA OIL & GAS LLC	NW LISBON USA A-2 (D-810)	Producing	Gas Well	LISBON	SAN JUAN	NESE	10	30S-24E 15
43-037-30054-00-00	PATARA OIL & GAS LLC	LISBON B-84	Shut-In	Oil Well	LISBON	SAN JUAN	NESW	4	30S-24E 16
43-037-30082-00-00	PATARA OIL & GAS LLC	LISBON B-814	Active	Water Disposal Well	LISBON	SAN JUAN	NESW	14	30S-24E 17
43-037-30317-00-00	PATARA OIL & GAS LLC	FEDERAL 15-25	Shut-In	Gas Well	WILSON CANYON	SAN JUAN	SWSE	25	29S-23E 18
43-037-30693-00-00	PATARA OIL & GAS LLC	LISBON C-99	Shut-In	Oil Well	LISBON	SAN JUAN	SWSE	9	30S-24E 19
43-037-30694-00-00	PATARA OIL & GAS LLC	LISBON U D-610	Shut-In	Gas Well	LISBON	SAN JUAN	NENE	10	30S-24E 20
43-037-30695-00-00	PATARA OIL & GAS LLC	LISBON B-94	Shut-In	Oil Well	LISBON	SAN JUAN	SESW	4	30S-24E 21
43-037-31014-00-00	PATARA OIL & GAS LLC	LISBON UNIT A-911	Producing	Gas Well	LISBON	SAN JUAN	SWSW	11	30S-24E 22
43-037-31034-00-00	PATARA OIL & GAS LLC	LISBON UNIT D-716	Shut-In	Oil Well	LISBON	SAN JUAN	SENE	16	30S-24E 23
43-037-31323-00-00	PATARA OIL & GAS LLC	LISBON C-910	Shut-In	Oil Well	LISBON	SAN JUAN	SWSE	10	30S-24E 24
43-037-31351-00-00	PATARA OIL & GAS LLC	LISBON B-614A	Shut-In	Oil Well	LISBON	SAN JUAN	NENW	14	30S-24E 25
43-037-31433-00-00	PATARA OIL & GAS LLC	LISBON B-810	Producing	Oil Well	LISBON	SAN JUAN	NESW	10	30S-24E 26

43-037-31829-00-00	PATARA OIL & GAS LLC	BIG INDIAN 35-24	Shut-In	Gas Well	SOUTH PINE RIDGE	SAN JUAN	SENE	35	29S-24E 7
43-037-31831-00-00	PATARA OIL & GAS LLC	BULL HORN U 10-43	Producing	Gas Well	BIG INDIAN (HERMOSA)	SAN JUAN	SWSE	10	30S-25E 8
43-037-31838-00-00	PATARA OIL & GAS LLC	MIDDLE MESA ST 36-14-29-24	Producing	Gas Well	SOUTH PINE RIDGE	SAN JUAN	NENE	36	29S-24E 9
43-037-31843-00-00	PATARA OIL & GAS LLC	BULL HORN FED 9-14-30-25	Producing	Gas Well	BIG INDIAN (HERMOSA)	SAN JUAN	NENE	9	30S-25E 30
43-037-31848-00-00	PATARA OIL & GAS LLC	BULL HORN FED 15-14-30-25	Producing	Gas Well	BIG INDIAN (HERMOSA)	SAN JUAN	NENE	15	30S-25E 1
43-037-31849-00-00	PATARA OIL & GAS LLC	BULL HORN FED 10-21-30-25	Producing	Gas Well	BIG INDIAN (HERMOSA)	SAN JUAN	NWSW	10	30S-25E 2
43-037-31850-00-00	PATARA OIL & GAS LLC	BIG INDIAN FED 14-21-30-25	Producing	Gas Well	BIG INDIAN (HERMOSA)	SAN JUAN	SWNW	14	30S-25E 3
43-037-31853-00-00	PATARA OIL & GAS LLC	MIDDLE MESA FED 5-6-30-25	Producing	Gas Well	SOUTH PINE RIDGE	SAN JUAN	LOT6	5	30S-25E 4
43-037-31854-00-00	PATARA OIL & GAS LLC	MIDDLE MESA FED 31-31-29-25	Producing	Gas Well	SOUTH PINE RIDGE	SAN JUAN	NWSW	31	29S-25E 5
43-037-31855-00-00	PATARA OIL & GAS LLC	MIDDLE MESA ST 36-12-29-24	Shut-In	Gas Well	SOUTH PINE RIDGE	SAN JUAN	NENW	36	29S-24E 6
43-037-31856-00-00	PATARA OIL & GAS LLC	MIDDLE MESA ST 36-24-29-24	Producing	Gas Well	SOUTH PINE RIDGE	SAN JUAN	SENE	36	29S-24E 7
43-037-31859-00-00	PATARA OIL & GAS LLC	BIG INDIAN FED 15-24-30-25	Shut-In	Gas Well	BIG INDIAN (HERMOSA)	SAN JUAN	SWNW	14	30S-25E 8
43-037-31860-00-00	PATARA OIL & GAS LLC	BIG INDIAN FED 14-42-30-25	Producing	Gas Well	BIG INDIAN (HERMOSA)	SAN JUAN	SESW	14	30S-25E 9
43-037-31861-00-00	PATARA OIL & GAS LLC	BULL HORN FED 10-42-30-25	Shut-In	Gas Well	BIG INDIAN (HERMOSA)	SAN JUAN	SESW	10	30S-25E 40
43-037-31864-00-00	PATARA OIL & GAS LLC	BULL HORN FED 10-31-30-25	Producing	Gas Well	BIG INDIAN (HERMOSA)	SAN JUAN	NWSW	10	30S-25E 1
43-037-31877-00-00	PATARA OIL & GAS LLC	MIDDLE MESA ST 36-12B-29-24	Producing	Gas Well	SOUTH PINE RIDGE	SAN JUAN	NENW	36	29S-24E 2

43-037-31878-00-00	PATARA OIL & GAS LLC	MIDDLE MESA ST 36-24B-29-24	Producing	Gas Well	SOUTH PINE RIDGE	SAN JUAN	SENE	36	29S-24E 3
43-037-31883-00-00	PATARA OIL & GAS LLC	BIG INDIAN FED 15-24B-30-25	Shut-In	Gas Well	BIG INDIAN (HERMOSA)	SAN JUAN	SWNW	14	30S-25E 4
43-037-31884-00-00	PATARA OIL & GAS LLC	BIG INDIAN FED 23-13B-30-25	Approved permit (APD); not yet spudded	Gas Well	BIG INDIAN (HERMOSA)	SAN JUAN	NWNE	23	30S-25E 5
43-037-31885-00-00	PATARA OIL & GAS LLC	BIG INDIAN FED 23-13-30-25	Approved permit (APD); not yet spudded	Gas Well	BIG INDIAN (HERMOSA)	SAN JUAN	NWNE	23	30S-25E 6
43-037-31891-00-00	PATARA OIL & GAS LLC	BULL HORN FED 15-13-30-25	Producing	Gas Well	BIG INDIAN (HERMOSA)	SAN JUAN	NENE	15	30S-25E 7
43-037-31893-00-00	PATARA OIL & GAS LLC	MIDDLE MESA FED 30-41-29-25	Approved permit (APD); not yet spudded	Gas Well	UNDESIGNATED	SAN JUAN	SWSW	30	29S-25E 8
43-037-31897-00-00	PATARA OIL & GAS LLC	MIDDLE MESA FED 5-10-30-25	Spudded (Drilling commenced: Not yet completed)	Gas Well	SOUTH PINE RIDGE	SAN JUAN	LT10	5	30S-25E 9
43-037-31901-00-00	PATARA OIL & GAS LLC	MIDDLE MESA FED 25-43-29-24	Approved permit (APD); not yet spudded	Gas Well	UNDESIGNATED	SAN JUAN	SWSE	25	29S-24E 10
43-037-31902-00-00	PATARA OIL & GAS LLC	MIDDLE MESA FED 25-41-29-24	Producing	Gas Well	SOUTH PINE RIDGE	SAN JUAN	SWSW	25	29S-24E 1
43-037-31903-00-00	PATARA OIL & GAS LLC	MIDDLE MESA FED 25-31-29-24	Producing	Gas Well	SOUTH PINE RIDGE	SAN JUAN	NWSW	25	29S-24E 2
43-037-31904-00-00	PATARA OIL & GAS LLC	MIDDLE MESA FED 26-34-29-24	Producing	Gas Well	SOUTH PINE RIDGE	SAN JUAN	NESW	26	29S-24E 3

43-037-31905-00-00	PATARA OIL & GAS LLC	MIDDLE MESA FED 26-23-29-24	Approved permit (APD); not yet spudded	Gas Well	UNDESIGNATED	SAN JUAN	SWNE	26	29S-24E 4
43-037-31906-00-00	PATARA OIL & GAS LLC	MIDDLE MESA FED 31-44-29-25	Producing	Gas Well	SOUTH PINE RIDGE	SAN JUAN	SESE	31	29S-25E 5
43-037-31907-00-00	PATARA OIL & GAS LLC	MIDDLE MESA FED 31-33-29-25	Producing	Gas Well	SOUTH PINE RIDGE	SAN JUAN	NWSE	31	29S-25E 4
43-037-31909-00-00	PATARA OIL & GAS LLC	MIDDLE MESA FED 31-22-29-25	Approved permit (APD); not yet spudded	Gas Well	SOUTH PINE RIDGE	SAN JUAN	SENW	31	29S-25E 7
43-037-31910-00-00	PATARA OIL & GAS LLC	MIDDLE MESA FED 31-11-29-25	Approved permit (APD); not yet spudded	Gas Well	SOUTH PINE RIDGE	SAN JUAN	NWNW	31	29S-25E 8
43-037-50008-00-00	PATARA OIL & GAS LLC	CISCO STATE 36-13	Temporarily-Abandoned	Gas Well	WILDCAT	SAN JUAN	NWNE	36	31S-24E 9
43-037-50010-00-00	PATARA OIL & GAS LLC	MIDDLE MESA FED 4-20-30-25	Producing	Gas Well	SOUTH PINE RIDGE	SAN JUAN	SWNW	4	30S-25E 60
43-037-50012-00-00	PATARA OIL & GAS LLC	Lisbon 11-32MC	Returned APD (Unapproved)	Oil Well	UNDESIGNATED	SAN JUAN	SWNE	11	30S-24E 1
43-037-50013-00-00	PATARA OIL & GAS LLC	Lisbon 14-11MC	Approved permit (APD); not yet spudded	Oil Well	LISBON	SAN JUAN	NWNW	14	30S-24E 2
43-037-50014-00-00	PATARA OIL & GAS LLC	Lisbon 10-44MC	Approved permit (APD); not yet spudded	Oil Well	LISBON	SAN JUAN	NWNW	14	30S-24E 3

43-037-50015-00-00	PATARA OIL & GAS LLC	Lisbon 3-32MC	Approved permit (APD); not yet spudded	Oil Well	LISBON	SAN JUAN	NESE	4	30S-24E	4
43-037-50016-00-00	PATARA OIL & GAS LLC	Lisbon 11-33MC	Approved permit (APD); not yet spudded	Oil Well	LISBON	SAN JUAN	NENW	14	30S-24E	5
43-037-50017-00-00	PATARA OIL & GAS LLC	Lisbon 11-21MC	Approved permit (APD); not yet spudded	Gas Well	LISBON	SAN JUAN	NWSE	10	30S-24E	6
43-037-50018-00-00	PATARA OIL & GAS LLC	Lisbon 3-43MC	Approved permit (APD); not yet spudded	Oil Well	LISBON	SAN JUAN	SESE	3	30S-24E	7
43-037-50019-00-00	PATARA OIL & GAS LLC	Lisbon 10-33MC	Spudded (Drilling commenced: Not yet completed)	Oil Well	LISBON	SAN JUAN	NWSE	10	30S-24E	8
43-037-50021-00-00	PATARA OIL & GAS LLC	Middle Mesa Fed 31-42-29-25	Approved permit (APD); not yet spudded	Gas Well	SOUTH PINE RIDGE	SAN JUAN	SESW	31	29S-25E	9
43-037-50026-00-00	PATARA OIL & GAS LLC	Middle Mesa Federal 5-8-30-25	Approved permit (APD); not yet spudded	Gas Well	SOUTH PINE RIDGE	SAN JUAN	NENE	5	30S-25E	10

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

UIC FORM 5

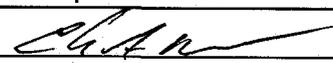
TRANSFER OF AUTHORITY TO INJECT

Well Name and Number Lisbon B-816	API Number 4303716244
Location of Well Footage : 2250' FSL 1860' FWL County : San Juan QQ, Section, Township, Range: NESW 16 30S 24E State : UTAH	Field or Unit Name Lisbon Lease Designation and Number ML-8366

EFFECTIVE DATE OF TRANSFER: 11/1/2012

CURRENT OPERATOR

Company: Patara Oil & Gas LLC
Address: 600 17th Street, Suite 1900S
city Denver state CO zip 80202
Phone: (303) 825-0685
Comments: n/a

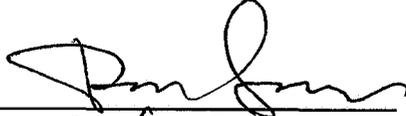
Name: Christopher Noonan
Signature: 
Title: Regulations & Production Reporting Supervisor
Date:

NEW OPERATOR

Company: CCI Paradox Upstream LLC
Address: 600 17th Street, Suite 1900S
city Denver state CO zip 80202
Phone: (303) 825-0685
Comments: n/a

Name: Christopher Noonan
Signature: 
Title: Regulations & Production Reporting Supervisor
Date:

(This space for State use only)

Transfer approved by: 
Title: UIC geologist

Approval Date: 2-6-13

Comments:

RECEIVED

MAY 29 2013

FORM 9

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

DIV. OF OIL, GAS & MINING

WELL DESIGNATION AND SERIAL NUMBER:

ML 8366

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:
Lisbon Unit

1. TYPE OF WELL
OIL WELL [] GAS WELL [] OTHER Salt Water Disposal Well

8. WELL NAME and NUMBER:
Lisbon B-816

2. NAME OF OPERATOR:
CCI Paradox Upstream LLC

9. API NUMBER:
4303716244

3. ADDRESS OF OPERATOR:
600 17 St. Ste 1900S CITY Denver STATE CO ZIP 80202

PHONE NUMBER:
(303) 825-0685

10. FIELD AND POOL, OR WILDCAT:
Lisbon

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 2250' FSL, 1850' FWL

COUNTY: San Juan

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 16 30S 24E

STATE:
UTAH

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

Table with columns: TYPE OF SUBMISSION, TYPE OF ACTION. Includes checkboxes for NOTICE OF INTENT, SUBSEQUENT REPORT, and various actions like ACIDIZE, DEEPEN, etc.

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

CCI has conducted a mechanical integrity pressure test on the subject salt water injection well. A pump truck was hooked up to the well and after a pause to repair leak in the piping, pressured up against the casing for a test period of 15 minutes. A 3,000 psi static spring was used with 2,000 psi chart. Chart line should be read as having an additional 1,000 psi represented to offset the difference in the spring weight. The well held at approximately 1,480 psi for the duration of the test, and was then bled off down to a static well pressure and returned to injection operations.

Please find the attached charter recorder.

Thank you.

NAME (PLEASE PRINT) Christopher Noonan

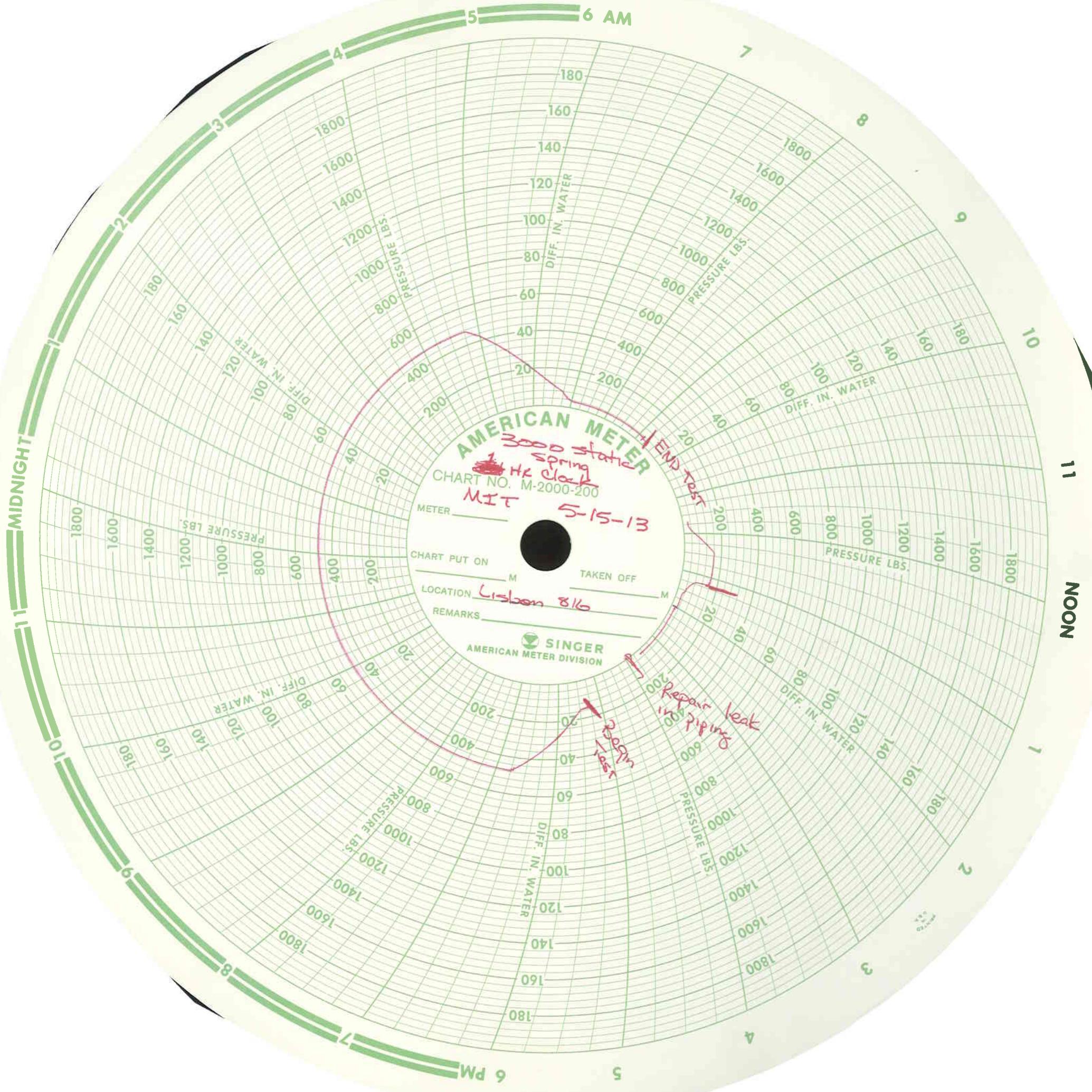
TITLE Supervisor

SIGNATURE [Signature]

DATE 5/22/2013

(This space for State use only)

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



AMERICAN METER
3000 static
Spring
HK Clock

CHART NO. M-2000-200

MIT
5-15-13

METER _____
CHART PUT ON _____ M
TAKEN OFF _____ M

LOCATION Lisbon 816

REMARKS _____

SINGER
AMERICAN METER DIVISION

END TEST

Repair
leak

Repair
in piping