

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

(Other instructions on reverse side)

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work
DRILL DEEPEN PLUG BACK

b. Type of Well
Oil Well Gas Well Other
Single Zone Multiple Zone

2. Name of Operator
Pennzoil Exploration and Production Company

3. Address of Operator
P.O. Box 290; Neola, Utah 84053

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At surface 1082' FSL and 1119' FWL (SW SW)
At proposed prod. zone same

14. Distance in miles and direction from nearest town or post office*
3.8 mi. South and 3.8 mi. West of Neola, Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drilg. line, if any) 1082'
16. No. of acres in lease 640

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft. 2668'
19. Proposed depth 14,000' *WSTC*

21. Elevations (Show whether DF, RT, GR, etc.)
Ungraded Ground Elev.: 5668'

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
13 1/2"	10 3/4"	40.4#	3500'	2546 cu.ft.
9 7/8"	7"	23#/26#	10,700'	3822 cu.ft.
6 1/8"	5"	18#	14,000'	304 cu.ft.

TECHNICAL REVIEW
Engr. *JM* 9/11/91
Geol. *DL* 9/9/91
Surface *SA* 8/9/91
RECEIVED
AUG 19 1991

- Enclosed Attachments:
 - Certified Location Plat
 - Drilling Plan.
 - BOP schematic.
 - Map showing roadway to location.
 - Schematic showing rig layout on location.
- Water Permit will be secured prior to spudding well.
- An AFE has been prepared and copies have been sent to joint interest holders for their approval.

DIVISION OF OIL, GAS AND MINING
TIGHT HOLE

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

24. Signed *DR Landford* Title Petroleum Engineer Date 8/17/91

(This space for Federal or State office use)
Permit No. 43-013-31334 Approval Date

Approved by _____ Title _____

Conditions of approval, if any: _____
DATE: 9/11/91
BY: *JM Mathews*
WELL SPACING: 139-42

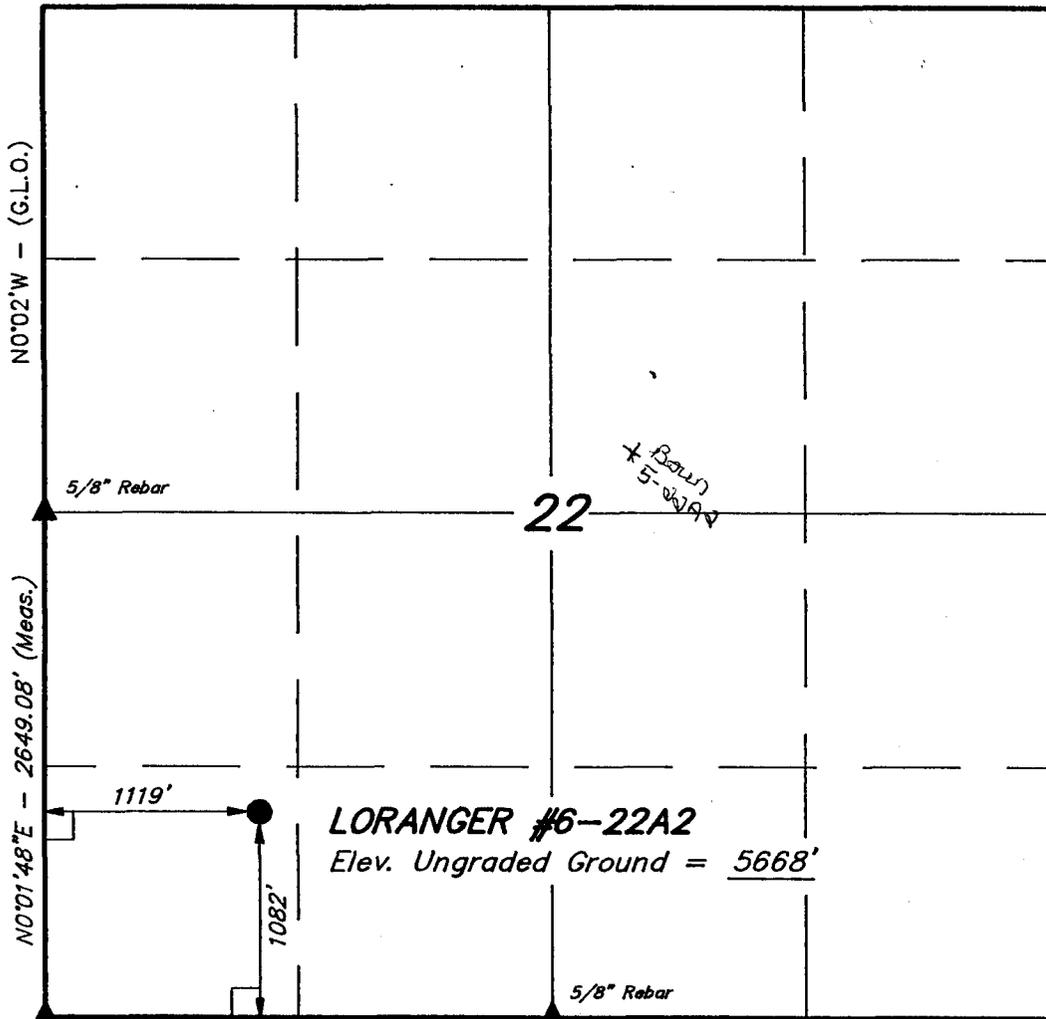
*See Instructions On Reverse Side

T1S, R2W, U.S.B.&M.

PENNZOIL EXPLR. & PROD. CO.

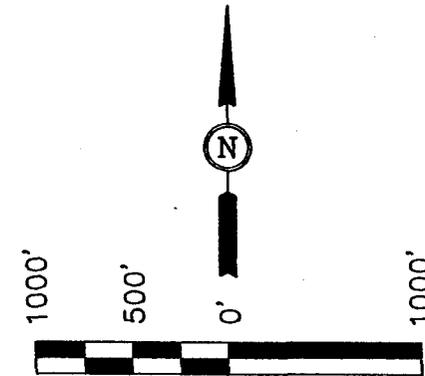
Well location, LORANGER #6-22A2, located as shown in the SW 1/4 SW 1/4 of Section 22, T1S, R2W, U.S.B.&M. Duchesne County, Utah.

S89°58'W - 80.06 (G.L.O.)



BASIS OF ELEVATION

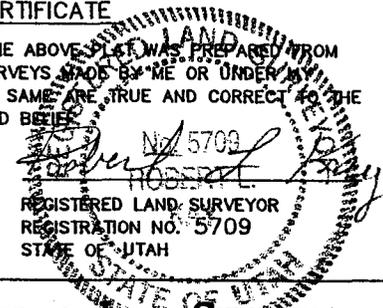
SPOT ELEVATION AT THE SOUTHWEST CORNER OF SECTION 22, T1S, R2W, U.S.B.&M. TAKEN FROM THE HANCOCK COVE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5677 FEET.



SCALE

CERTIFICATE

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



Duchesne County
Alum Cap (1988)

S89°52'W - G.L.O. (Basis of Bearings)

2660.48' - (Measured)

S89°52'W - 40.04 (G.L.O.)

▲ = SECTION CORNERS LOCATED.

UINTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078

(801) 789-1017

SCALE 1" = 1000'	DATE 8-13-91
PARTY J.T.K. B.C. T.D.H.	REFERENCES G.L.O. PLAT
WEATHER HOT	FILE PENNZOIL EXPLR. & PROD. CO.

DRILLING PLAN

OPERATOR: PENNZOIL EXPLORATION & PRODUCTION COMPANY
WELL: Loranger 6-22A2
WELL LOCATION: 1082' FSL & 1119' FWL
SW 1/4 SW 1/4 SEC. 22, T1S, R2W
Duchesne County, Utah

1. ESTIMATED TOPS AND IMPORTANT GEOLOGICAL FORMATIONS:

Top Green River	6286'
Green River Trona	7681'
Mahagony Bench	8465'
TGR 3	9716'
CP 70	10,556'
TU 2	10,868'
Wasatch 200	12,962'
Total Depth	14,000'

2. ESTIMATED OIL AND WATER DEPTHS:

Water	NONE ANTICIPATED
TU 2	Oil @ +10,868'
Wasatch 200	Oil @ +12,962'

3. HOLE SIZE, CASING, AND CEMENT PROGRAM:

- A. CONDUCTOR HOLE: 0' - 60'
- Drill a 36" hole to 60'.
 - Set 16" conductor pipe.
 - Cement with ready mix concrete at 6 bags per yard.
- B. SURFACE HOLE: 60' - 3500'
- Drill a 13 1/2" hole to 3500'.
 - Set 10 3/4" 40.5# K-55/S-80 STC.
 - Cement to surface with a lead slurry of a low density filler and tail in with 200 sks. Class "G".
- C. INTERMEDIATE HOLE: 3500' - 10,700'
- Drill a 9 7/8" hole to 10,700'.
 - Set 7" 23#/26# N-80/S-95 LTC.
 - Cement to surface with a DVT at approximately 8465'.
First stage: 50/50 Poz "G" with additives tailored for depth and temp. Second stage: A lead cement from approx. 5786' to surface with a low density filler and tail in with a 50/50 Poz. "G" tailored for depth and temp.

- D. PRODUCTION HOLE: 10,700' - 14,000'
 - a. Drill a 6 1/8" hole to 14,000'.
 - b. Hang a 5" 18# N-80 FL4S liner.
 - c. Cement liner with a Class "G" cement tailored for depth and temp.

4. OPERATOR'S PRESSURE CONTROL PLAN:

Figure no. 1 is a schematic of minimum BOP equipment.

The BOP equipment will be nipped up on the surface casing string and pressure tested prior to commence drilling.

- a. All rams and choke manifold will be tested to 5000 psi.
- b. Bag preventor will be tested to 50% of its rated working pressure.
- c. 7" casing strings will be tested to 4000 psi. or 0.2 psi/ft per depth, which ever is greater.
- d. Record all BOP test on tour reports.
- e. Retest BOP stack every 28 days.
- f. Fill up line above the bag preventer.
- g. Kill line located below the double BOP rams.

Operational Checks:

- a. Pipe rams will be closed and opened once each 24 hours.
- b. Blind rams will be closed and opened each time the drill string is pulled from the well bore.

5. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- a. Upper and lower kelly cocks will be utilized.
- b. A full opening drill pipe stabbing valve.
- c. PVT equipment will be used to monitor the mud system when drilling the production hole.

6. PROPOSED DRILLING FLUID PROGRAM:

- A. SURFACE HOLE: 60' - 3500'
 - a. Drill from 60' to 3500' with a 36 viscosity in steel pits. Then continue drilling with fresh water, circulating reserve pit using lime and flocculate to keep fluid clean.
 - b. All severe water flows will be contain with barite and gel.
- B. INTERMEDIATE HOLE: 3500' - 10,700'
 - a. Drill out with fresh water circulating reserve pit using lime and flocculate as needed to keep fluid clean. Barite, polymers, and gel will be used as wellbore dictates due to pressure or hole condition.
 - b. Final fluid properties: 9.5 ppg. gelled brine water.

C. PRODUCTION HOLE: 10,700'-14,000'

- a. Drill out with the existing mud system. Barite, polymers, and gel will be used as wellbore dictates due to pressure and hole condition.
- b. Final fluid properties: 13.0/13.5 ppg. 40/55 vis.
8/10 wl. 20/30 yp.

7. WELL BORE EVALUATION:

- a. CORING: None Anticipated
- b. DRILL STEM TESTING: None Anticipated
- c. LOGS: Production hole Dual Induction Lateral
Gamma Ray
Formation Density
BHC-Sonic Micro-SFL
Four Arm Caliper
- d. COMPLETION: The objective formation is one of the oil zones in the Wasatch Formation. Selected intervals will then be perforated and evaluated for stimulation work.

8. PRESSURE AND TEMPERATURES:

- a. No abnormal pressure or temperature have been noticed or reported in wells drilled in this area.
- b. Estimated bottom hole temperatures : 250 degrees
- c. Estimated bottom hole pressure: 9450 psi

9. ANTICIPATED STARTING DATE:

- a. Construction will probably start within 30 days of permit approval.
- b. The well will probably be spudded approx. Oct. 20, 1991.

10. OTHER INFORMATION:

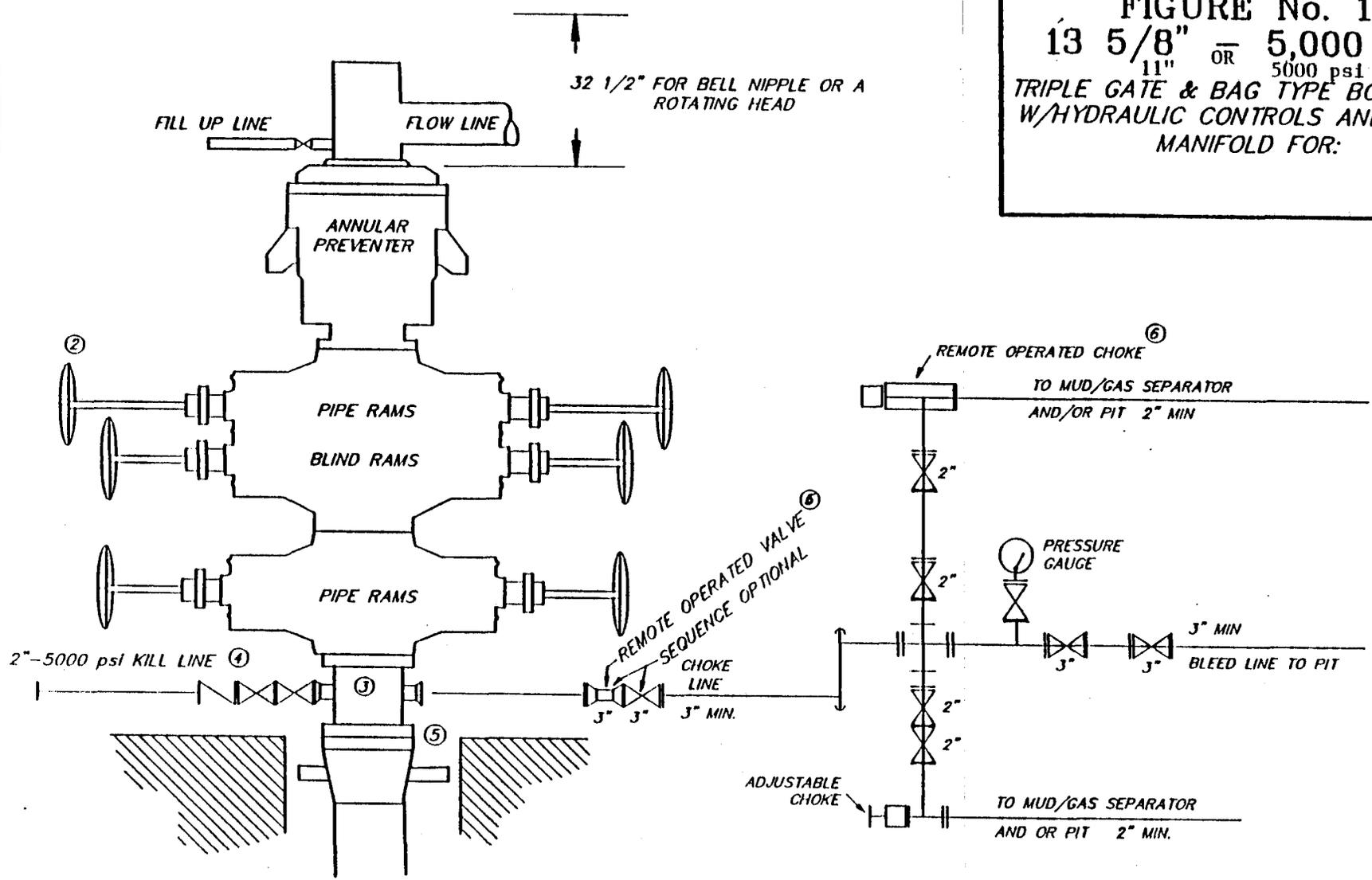
- a. Topography: Gently rolling hills
- b. Soil Characteristics: Bentonitic clays, sand, and silt.
- c. Flora: Irrigated alfalfa surrounded by pasture grasses, sage brush, and Russian olive trees.
- d. Fauna: Domestic: Cattle
Wildlife: Deer, rodents, small reptiles
- e. Surface Use: Alfalfa farming and cattle grazing.
- f. Surface Owner: Louis Loranger (801) 353-4863

11. LEASEE'S OR OPERATOR'S REPRESENTATIVE:

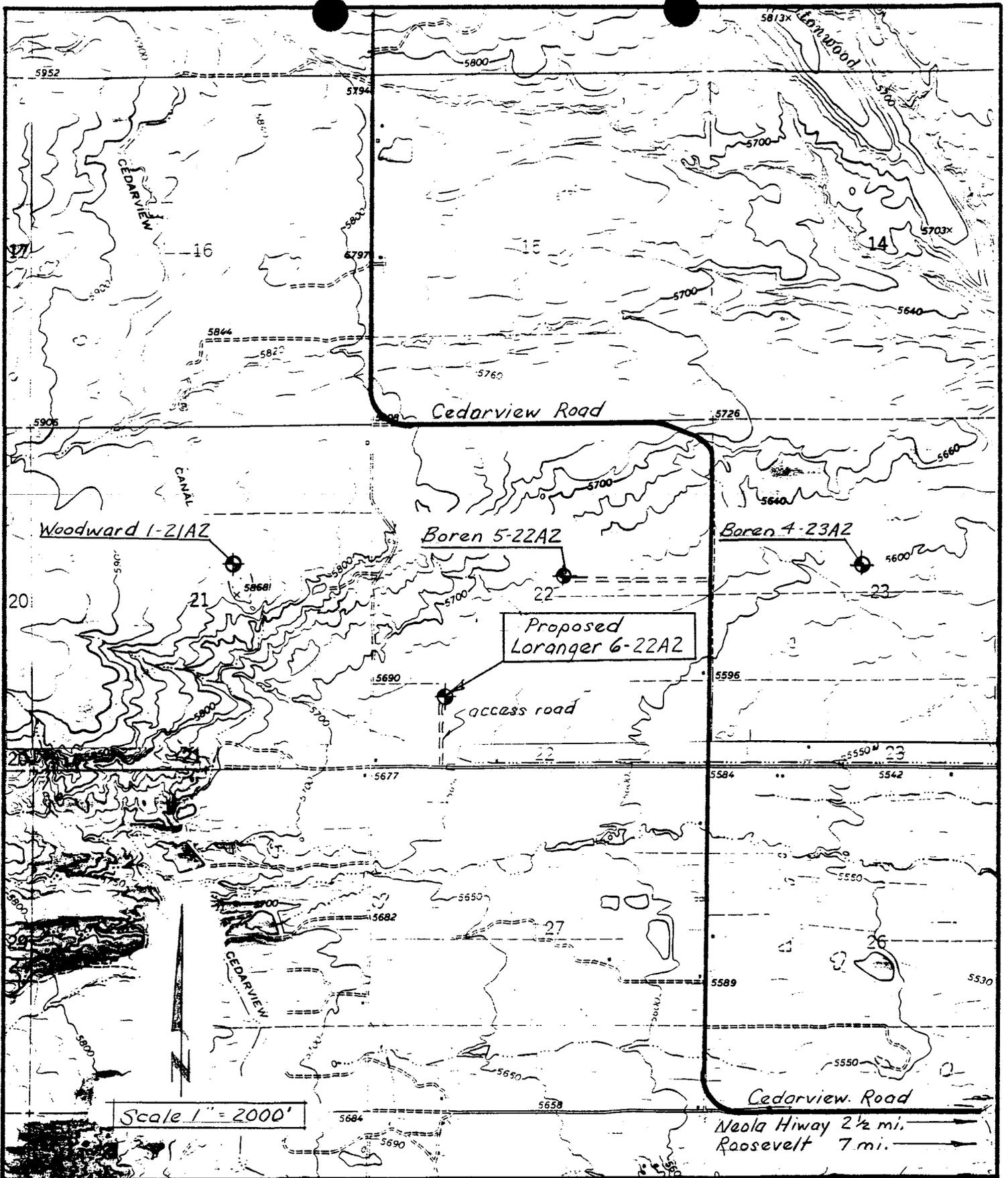
George P. SanFilippo, Vice President of Western Operations
Danny L. Laman, Area Drilling Foreman (801) 353-4397

12. This well will be drilled per regulations as set forth by the State of Utah Natural Resource Oil, Gas, & Mining Division.

FIGURE No. 1
13 5/8" $\overline{\text{OR}}$ 5,000 psi ^①
11" _{5000 psi}
TRIPLE GATE & BAG TYPE BOP STACK
W/HYDRAULIC CONTROLS AND CHOKE
MANIFOLD FOR:



- ① = ALL BOP CONNECTIONS SUBJECTED TO WELL PRESSURE SHALL BE FLANGED, WELDED OR CLAMPED.
- ② = HAND WHEELS FOR EACH SET OF RAMS UNLESS EQUIPPED WITH AUTO LOCK.
- ③ = DRILLING SPOOL UNLESS BOTTOM BOP EQUIPPED WITH SIDE OUTLETS.
- ④ = KILL LINE W/2-2" VALVES & 1-2" CHECK VALVE WITH KILL LINE TO OUTER EDGE OF THE SUB STRUCTURE.
- ⑤ = TOP OF CASING HEAD FLANGE WILL BE AT GROUND LEVEL.
- ⑥ = REMOTE CONTROLS ON RIG FLOOR.

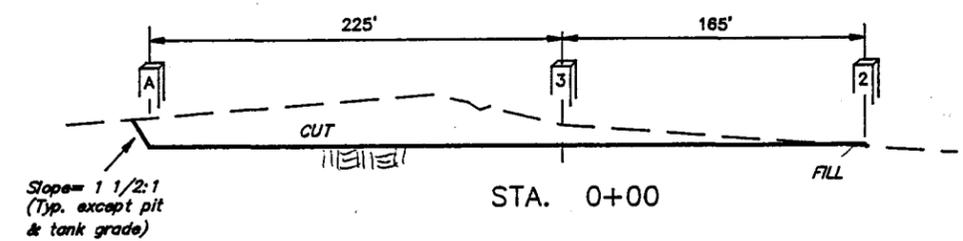
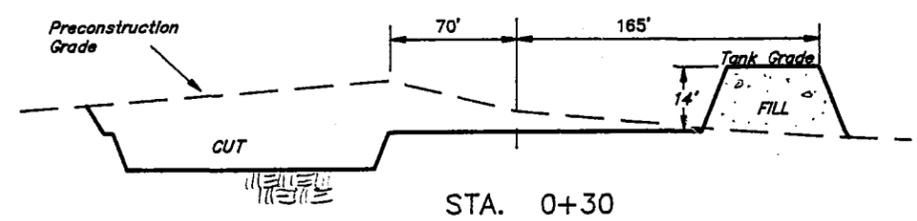
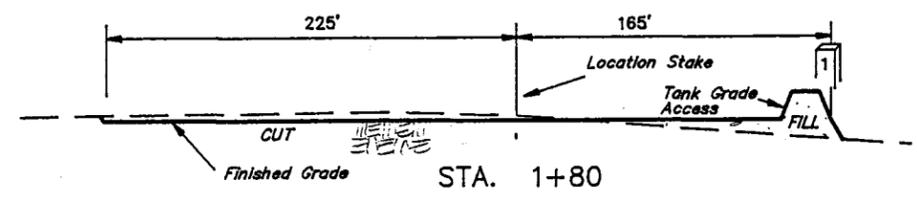
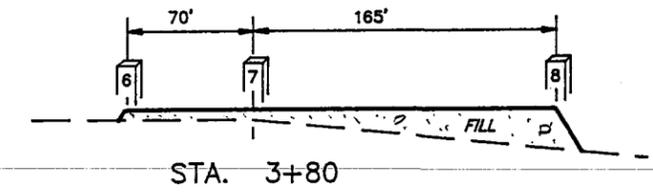
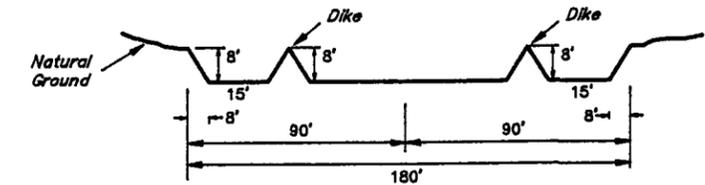
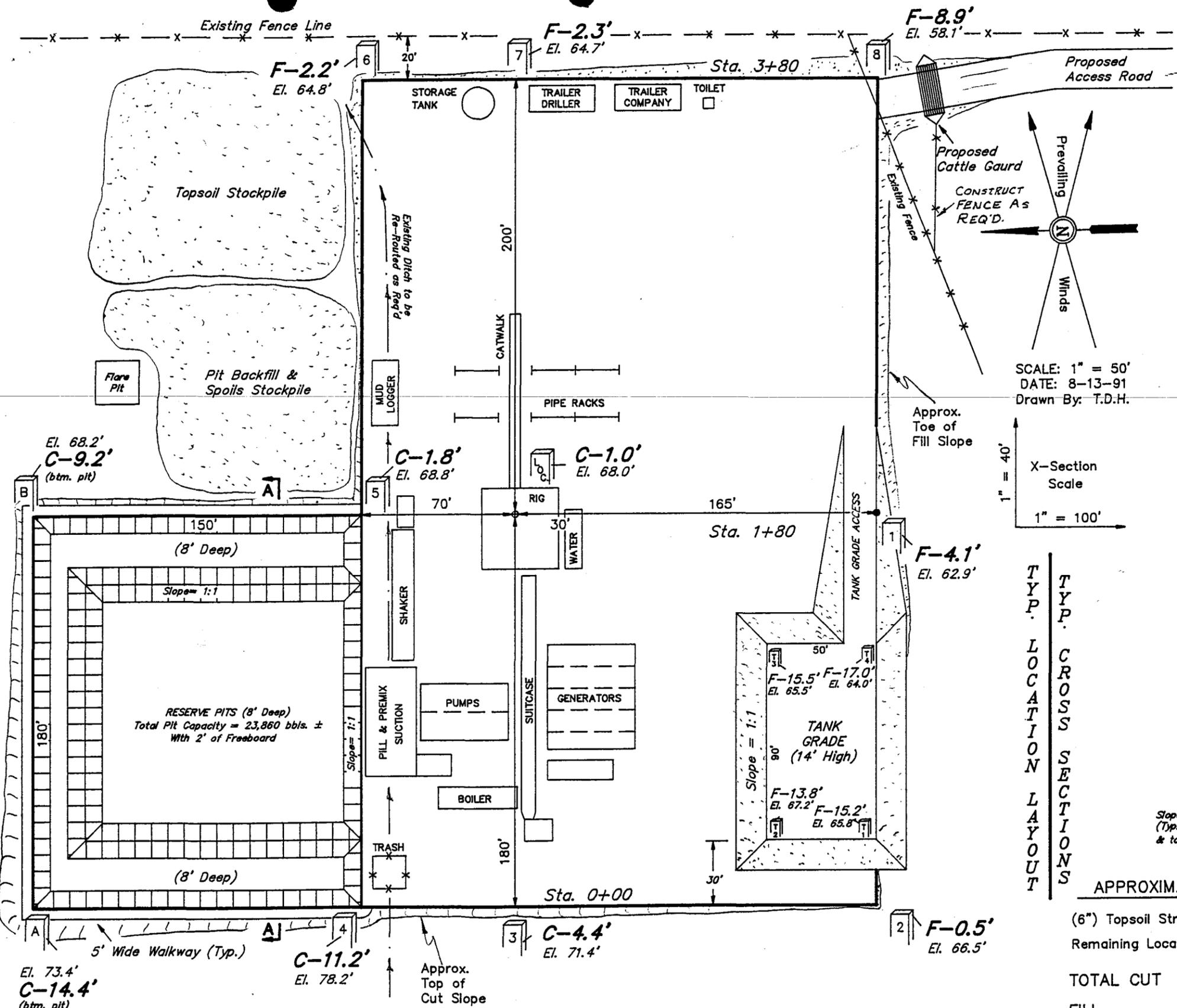


LORANGER 6-22A2
AREA TOPOGRAPHY MAP

1082' FSL & 1119' FWL SW. SW. Sec. 22, T15, R2W, Duchesne County, Utah
Submitted to Utah Div. Oil, Gas, Mining by Pennzoil Explor. & Prod. Co. 8/14/91

PENNZOIL EXPLR. & PROD. CO.

LOCATION LAYOUT FOR
LORANGER #6-22A2,
SECTION 22, T1S, R2W, U.S.B.&M.



TYP. LOCATION LAYOUT
TYP. CROSS SECTIONS

APPROXIMATE YARDAGES

(6") Topsoil Stripping	= 2,150 Cu. Yds.	EXCESS MATERIAL AFTER 5% COMPACTION	= 5,520 Cu. Yds.
Remaining Location	= 15,300 Cu. Yds.	Topsoil & Pit Backfill (1/2 Pit Vol.)	= 5,450 Cu. Yds.
TOTAL CUT	= 17,450 CU.YDS.	EXCESS UNBALANCE	= 70 Cu. Yds.
FILL	= 11,330 CU.YDS.		

NOTES:

Elev. Ungraded Ground At Loc. Stake = 5668.0'
FINISHED GRADE ELEV. AT LOC. STAKE = 5667.0'

 **PENNZOIL EXPLORATION AND PRODUCTION COMPANY**

P. O. BOX 290 • NEOLA, UTAH 84053 • (801) 353-4397

August 14, 1991

State of Utah, Department of Natural Resources
Division of Oil, Gas, and Mining
355 West North Temple
3 Triad Center; Suite 350
Salt Lake City, Utah 84180-1203

RE: Application for Permit to Drill
Loranger 6-22A2
1082' FSL & 1119' FWL
SW1/4 SW1/4 Sec. 22, T1S R2W
Duchesne County, Utah

Gentlemen:

The original and two copies of captioned APD are enclosed for your review and I trust your approval. Pennzoil Exploration and Production Company requests that this APD and all related information submitted on this well be held confidential for that period of time permitted by regulations and law.

Please call the Pennzoil Production Office in Neola, Utah, at (801) 353-4397 for addition information.

Sincerely,
Pennzoil Exploration and Production Company

DR Lankford

D.R. Lankford
Petroleum Engineer

Enclosure

CONFIDENTIAL

RECEIVED

AUG 19 1991

**DIVISION OF
OIL GAS & MINING**

DRILLING LOCATION ASSESSMENT

State of Utah
Division of Oil, Gas and Mining

OPERATOR: PENNZOIL EX. AND PROD. CO. NAME: LORANGER 6-22A2
SECTION: 22 TWP: 1S RNG: 2W LOC: 660 FNL 1320 FEL
QTR/QTR NH/NE COUNTY: DUCHESNE FIELD: ALTAMONT/WASATCH
SURFACE OWNER: LEWIS LORANGER
SPACING: 660 F SECTION LINE 1320 F ANOTHER WELL
INSPECTOR: BRAD HILL DATE AND TIME: 9/4/91 10:30

PARTICIPANTS: Don Lankford-Pennzoil; Daniel J. Jarvis-DOGM

REGIONAL SETTING/TOPOGRAPHY: The proposed location is in the north central Uinta Basin on a flat area with a shallow drainage to the north of location.

LAND USE:

CURRENT SURFACE USE: Irrigated pasture.

PROPOSED SURFACE DISTURBANCE: A rectangular shaped pad will be constructed with approximate dimensions of 380'X 235' with a 180'X 150' extension for a reserve pit. Approximately .25 miles of access road will be constructed.

AFFECTED FLOODPLAINS AND/OR WETLANDS: None

FLORA/FAUNA: Pasture grass, Alfalfa, Aster, Foxtail Grass/Birds, Cows, Rabbits

ENVIRONMENTAL PARAMETERS

SURFACE GEOLOGY

SOIL TYPE AND CHARACTERISTICS: Sandy-silt

SURFACE FORMATION & CHARACTERISTICS: Quaternary Alluvium

EROSION/SEDIMENTATION/STABILITY: No active erosion or sedimentation at present. Location should be stable.

PALEONTOLOGICAL POTENTIAL: None Observed

SUBSURFACE GEOLOGY

OBJECTIVES/DEPTHS: Tu 2-10,868'; Wasatch 200-12,962'

ABNORMAL PRESSURES-HIGH AND LOW: None Anticipated

CULTURAL RESOURCES/ARCHAEOLOGY: NA

CONSTRUCTION MATERIALS: Onsite materials will be used for construction.

SITE RECLAMATION: As per landowner instructions.

RESERVE PIT

CHARACTERISTICS: An square/horseshoe shaped reserve pit will be constructed with dimensions of 180'X 150'X 6'.

LINING: The reserve pit is to be lined with a synthetic liner.

MUD PROGRAM: See APD

DRILLING WATER SUPPLY: Not specified

STIPULATIONS FOR APD APPROVAL

Reserve pits to be lined with a synthetic liner of 12 mil minimum thickness.

ATTACHMENTS

Photographs will be placed on file.

BEFORE THE BOARD OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH

IN THE MATTER OF THE AMENDED	:	
PETITION OF ANR LIMITED INC.,	:	
ET AL. FOR AN ORDER MODIFYING	:	FINDINGS OF FACT,
PREVIOUS ORDERS WHICH	:	CONCLUSIONS OF LAW
ESTABLISHED DRILLING AND	:	AND ORDER
SPACING UNITS AND ANY OTHER	:	
ORDERS RELATING TO TEST WELLS	:	Docket No. 85-007
FOR THE ALTAMONT, BLUEBELL	:	Cause No. 139-42
AND CEDAR RIM-SINK DRAW	:	
FIELDS, DUCHESNE AND UINTAH	:	
COUNTIES, UTAH	:	

Pursuant to the Amended Notice of Hearing dated March 4, 1985 of the Board of Oil, Gas and Mining ("Board"), Department of Natural Resources of the State of Utah, said cause came on for hearing on Thursday, April 11, 1985 at 10:00 a.m. in the Board Room of the Division of Oil, Gas and Mining ("Division"), 355 West North Temple, 3 Triad Center, Suite 301, Salt Lake City, Utah.

The following members of the Board were present:

Gregory P. Williams, Chairman
James W. Carter
Charles R. Henderson
Richard B. Larson
E. Steele McIntyre
John M. Garr, having recused himself,
did not participate

Mark C. Moench, Assistant Attorney General, was present on behalf of the Board.

Members of the Staff of the Division present and participating in the hearing included:

Dr. Dianne R. Nielson, Director
Ronald J. Firth, Associate Director
John R. Baza, Petroleum Engineer

Barbara W. Roberts, Assistant Attorney General, was present on behalf of the Division.

Appearances were made as follows: Petitioners ANR Limited, et al., by Frank Douglass, Esq. and Ray H. Langenberg, Austin, Texas; Robert G. Pruitt, Jr., Esq., Salt Lake City, Utah; Frank J. Gustin, Esq., Salt Lake City, Utah; Louis A. Posekany, Jr., General Counsel, and George W. Hellstrom, Esq., ANR Production Company; Phillip K. Chattin, General Counsel, Utex Oil Company; Hugh C. Garner, Esq., for Coastal Oil & Gas Corporation; Phillip William Lear, Esq., for Phillips Petroleum Company; Jeffrey R. Young, Esq., for Bow Valley Petroleum, Inc.; B. J. Lewis, Esq., Vice President, and Robert W. Adkins, Esq., Linmar Energy Corporation; Robert Buettner, Esq., Koch Exploration Company; Lane Jamison, Esq., Sonat Exploration Company; Victor Brown and Robert Brown, Utah Royalty Association; John Harja, Esq., Gulf Oil Corporation; Martin Seneca, General Counsel, Ute Indian Tribe; Assad M. Raffoul, Petroleum Engineer, Bureau of Land Management; John Chasel, on his own behalf; George Morris, Esq., Ute Distribution Corporation; Dr. Gilbert Miller, Conservation Superintendent, Amarada Hess Corporation; and L. A. Pike, Roosevelt, Utah, landowner.

Now therefore, the Board having considered the testimony of the witnesses, John C. Osmond, Petroleum Geologist; Clarke Gillespie, Petroleum Reservoir Engineer; and R. Thayne Robson, Economist, for Petitioners and B. J. Lewis, Vice President, and John W. Clark, Petroleum Engineer, for Linmar Energy Corporation, and the exhibits received at said hearing and being fully advised in the premises, now makes and enters the following:

FINDINGS OF FACT

1. Due and regular notice of the time, place and purpose of the hearing was given to all interested parties as required by law and the rules and regulations of the Board.

2. The Board has jurisdiction over the matters covered by said notice and over all parties interested therein and has jurisdiction to make and promulgate any order hereinafter set forth.

3. The Board has heretofore entered 640 acre drilling and spacing orders for the Lower Green River/Wasatch Formation in Causes No. 139-3, 139-4, 139-5, 139-8, and 139-17 (Altamont Field), Causes No. 131-11, 131-14, 131-24, 131-27, 131-32, 131-33, 131-34, 131-45 and 131-55, (Bluebell Field), and Causes No. 140-6 and 140-7 (Cedar Rim-Sink Draw Field) as to the following described lands:

UINTAH SPECIAL MERIDIAN

Township 1 North, Range 1 West
Sections: 19-36

Township 1 North, Range 2 West
Sections: 19-36

Township 1 North, Range 3 West
Sections 23-26, 35 and 36

Township 1 South, Range 1 East
Sections: All (except Roosevelt Unit)

Township 1 South, Range 2 East
Sections: 4-8, 18-19, 30-31

Township 1 South, Range 1 West
Sections: All (except Roosevelt Unit)

Township 1 South, Range 2 through 4 West ?
Sections: All

Township 1 South, Range 5 West
Sections: 10-17, 20-36

Township 1 South, Range 6 West
Sections: 25-26, 35-36

Township 2 South, Range 1 through 2 East ?
Sections: All

Township 2 South, Range 1 through 6 West ?
Sections: All

Township 2 South, Range 7 West
Sections: 19, 30-36

Township 2 South, Range 8 West
Sections: 23-26, 31-36

Township 3 South, Range 3 West
Sections: 5-8, 17-20, 29-32

Township 3 South, Range 4 through 8 West ?
Sections: All

Township 4 South, Range 3 West
Sections: 5 and 6

Township 4 South, Range 4 West
Sections: 1-6

Township 4 South, Range 5 West
Sections: 1-6

Township 4 South, Range 6 West
Sections: 1-18

SALT LAKE MERIDIAN

Township 5 South, Range 19 East
Sections: 20-23, 26-29, 32-35

Township 6 South, Range 19 East
Sections: 3-5, 9, 10, 15, 16, 22, 27
and 34

4. In Cause No. 140-12, the Board authorized the drilling of test or second wells that may only be produced alternatively with the initial well on the same drilling unit.

5. The Lower Green River/Wasatch Formation underlying the subject fields constitutes a pool as that term is defined in Utah Code Ann. §40-6-2(9) (1953, as amended), and is a highly complex series of isolated and discontinuous beds of productive rock that are randomly distributed vertically over a several thousand feet thick interval. Normally, the productive beds are separate and distinct and not in communication with each other.

6. Many of the productive beds are not correlatable from well to well and will not afford communication between wells as close as 1000 feet. Of the productive beds that correlate, various geological factors prevent a significant number from communicating between wells within the same section.

7. Geologic and engineering information from initial unit wells and test wells show that a single well will not effectively drain the recoverable oil and gas underlying any given 640 acre spacing unit because the productive beds are too

small or have other limiting characteristics precluding effective and efficient drainage of the recoverable reserves underlying the unit.

8. Data from production logs and field performance show that test wells drilled under the Order in Cause No. 140-12 after 1978 have caused the recovery of substantial amounts of oil from separate and distinct productive beds and from previously undepleted productive beds, and that the drilling of additional wells on existing units will increase the ultimate recovery of oil from the subject fields.

9. The prohibition of simultaneous production from the initial well and test well on the same unit has caused the shutting in of wells with the potential to produce substantial amounts of additional reserves.

10. Each additional well drilled under this order will tap producing formations that are separate and distinct from and not in communication with any other producing formation and is not an unnecessary well.

11. In some areas of the subject fields, geologic, engineering, and economic factors justify drilling additional wells on existing units. In other areas, geologic, engineering and economic factors may not justify drilling additional wells on existing units.

CONCLUSIONS OF LAW

1. Due and regular notice of the time, place and

purpose of the hearing was given to all interested parties as required by law and the rules and regulations of the Board.

2. The Board has jurisdiction over the matters covered by said notice and over all parties interested therein and has jurisdiction to make and promulgate any order hereinafter set forth.

3. The Board is authorized to modify its previous orders to permit additional wells to be drilled within established units under Utah Code Ann. §40-6-6(4) (1953, as amended).

4. An order permitting (a) the drilling of additional wells on existing units as provided herein and (b) the simultaneous production of initial wells and additional wells will prevent the waste of hydrocarbons, prevent the drilling of unnecessary wells, and protect correlative rights.

ORDER

IT IS THEREFORE ORDERED:

To prevent waste of oil, gas and associated liquid hydrocarbons, to avoid the drilling of unnecessary wells, to protect correlative rights and to maintain, to the maximum extent practicable, drilling units of uniform size and shape for the promotion of more orderly development of the lands described in Finding of Fact No. 3 above, the following order is hereby promulgated to govern operations in said area effective as of April 12, 1985:

A. Upon the effective date any and all orders of the Board heretofore promulgated which are inconsistent with the orders herein set forth shall be and are hereby vacated to the extent inconsistent herewith.

B. Additional wells may be drilled, completed, and produced on established drilling units comprising government surveyed sections of approximately 640 acres (or other designated drilling units so long as such unit is at least 400 acres in size) to a density of no greater than two producing wells on each unit comprising a section (or other designated unit).

C. Additional wells may be drilled at the option of the operator of the unit, based upon geologic and engineering data for that unit which will justify the drilling of an additional well in order to recover additional oil, provided the additional well appears to be economically feasible.

D. Economically feasible means that a prudent operator would have a reasonable opportunity to recover the costs of drilling, completing, producing and operating the well, plus a reasonable profit.

E. It is not the intent of this order, in permitting additional wells to be drilled on established drilling units, to change or amend the existing contractual rights or relationships, express or implied, of any parties who share in production or the proceeds therefrom in the spaced area.

F. Any additional well must be located at least 1,320 feet from the existing well on the unit and not closer than 660

feet from the exterior boundary of the unit. No two wells may be drilled in any drilling unit within the same governmental quarter section or equivalent lot.

G. If an operator elects to initially complete a well solely within producing formations that are separate and distinct from and not in communication with any other producing formation, the operator will use reasonable precautions in order that such well is not completed in any producing formation that may be effectively drained by any other well.

H. Second or test wells drilled under previous orders as well as additional wells to be drilled under this order may be produced simultaneously with initial wells.

I. The Board retains exclusive and continuing jurisdiction of all matters covered by this order and of all parties affected thereby and particularly that the Board retains and reserves exclusive and continuing jurisdiction to make further orders as appropriate and authorized by statute and applicable regulations.

ENTERED this 17th day of April, 1985.

STATE OF UTAH
BOARD OF OIL, GAS AND MINING


GREGORY P. WILLIAMS, Chairman

APPROVED AS TO FORM:


MARK C. MOENCH
Assistant Attorney General

OPERATOR Penagou Expl. & Prod Co No. 2885 DATE 9-11-91

WELL NAME Orange W-201A

SEC S15W 20 T 15 R 20 COUNTY Duchesne

43-013-31334
API NUMBER

free (4)
TYPE OF LEASE

CONFIDENTIAL

CHECK OFF:

- PLAT.
- BOND (80,000)
- NEAREST WELL
- LEASE
- FIELD USBM
- POTASH OR OIL SHALE

PROCESSING COMMENTS:

falls within cause. No guidelines

One add well in Sec. 20

Water Permit

Permit 8-21-91 / Biology well 9-9-91

APPROVAL LETTER:

SPACING: R615-2-3 N/A R515-3-2
UNIT

139-40 R615-3-3
CAUSE NO. & DATE

STIPULATIONS:

1- No stipulation

water permit needed

2. Reserve pit is to be lined with a synthetic liner of 12 mil minimum thickness.

CONFIDENTIAL
PERIOD
EXPIRED
ON 5-13-93

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
DRILLING INSPECTION FORM

COMPANY: PENNZOIL EXPL. & PROD. COMPANY REP: DAVID REID

WELL NAME: LORANGER 6-22A2 API NO: 43-013-31334

QTR/QTR: SW SW SECTION: 22 TWP: 1 S RANGE: 2 W

CONTRACTOR: FORWEST RIG NUMBER: 5

INSPECTOR: HEBERTSON & BERRIER TIME: 12:15 PM DATE: 12/18/91

OPERATIONS: DRILLING AHEAD DEPTH: 4,230

SPUD DATE: DRY: _____ ROTARY: 12/17/91 T.D.: _____ DEPTH: _____

=====

WELL SIGN: Y SANITATION: Y BOPE: Y BLOOIE LINE: _____

H2S POTENTIAL: _____ ENVIRONMENTAL: Y FLARE PIT: Y

RESERVE PIT: Y FENCED: Y LINED: Y PLASTIC: Y

RUBBER: _____ BENTONITE: _____ OTHER: _____ MUD WEIGHT _____ LBS/GAL

BOPE TEST RECORDED IN THE RIG DAILY TOUR BOOK: Y

BOPE TRAINING RECORDED IN THE RIG DAILY TOUR BOOK: Y

=====

LEGEND: (Y)=YES (U)=UNKNOWN (NA)=NOT APPLICABLE

=====

REMARKS:

PICKED UP WATER SAMPLE FROM WATER FLOW AT 2300 FEET.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
DRILLING INSPECTION FORM

COMPANY: PENNZOIL EXPL. & PROD. COMPANY REP: DAVID REID

WELL NAME: LORANGER 6-22A2 API NO: 43-013-31334

QTR/QTR: SW SW SECTION: 22 TWP: 1 S RANGE: 2 W

CONTRACTOR: FORWEST RIG NUMBER: 5

INSPECTOR: HEBERTSON TIME: 3:15 PM DATE: 12/18/91

OPERATIONS: DRILLING AHEAD TO SET SURFACE DEPTH: 229

SPUD DATE: DRY: _____ ROTARY: 12/17/91 T.D.: _____ DEPTH: _____

=====

WELL SIGN: Y SANITATION: Y BOPE: Y BLOOIE LINE: _____

H2S POTENTIAL: _____ ENVIRONMENTAL: Y FLARE PIT: Y

RESERVE PIT: Y FENCED: Y LINED: Y PLASTIC: Y

RUBBER: _____ BENTONITE: _____ OTHER: _____ MUD WEIGHT _____ LBS/GAL

BOPE TEST RECORDED IN THE RIG DAILY TOUR BOOK: _____

BOPE TRAINING RECORDED IN THE RIG DAILY TOUR BOOK: _____

=====

LEGEND: (Y)=YES (U)=UNKNOWN (NA)=NOT APPLICABLE

=====

REMARKS:

SHOULD RUN PIPE AND CEMENT FRIDAY. TEST BOPE ON SUNDAY.



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangarter
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

September 11, 1991

Pennzoil Exploration & Production Company
P. O. Box 290
Neola, Utah 84053

Gentlemen:

Re: Loranger 6-22A2 Well, 1082 feet from the South line, 1119 feet from the West line, SW SW, Section 22, Township 1 South, Range 2 West, Duchesne County, Utah

Approval to drill the referenced well is hereby granted in accordance with the Order in Cause No. 139-42 dated April 17, 1985, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Utah Code Ann. Section 73-3, Appropriation.
2. Pennzoil Exploration & Production Company, as designated operator, is the bonded principal in reference to this Application for Permit to Drill. Should this designation change or a transfer of ownership occur, liability will remain with the designated operator until the Division is notified by letter of a new bonded principal.
3. Reserve pit is to be lined with a synthetic liner of 12 mil. thickness.

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

1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of Entity Action Form 6, within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form 7.

Page 2
Pennzoil Exploration & Production Company
Loranger 6-22A2
September 11, 1991

4. Prompt notification in the event it is necessary to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801) 538-5340, (Home) (801) 476-8613, or R. J. Firth, Associate Director, (Home) (801) 571-6068.
5. Compliance with the requirements of Utah Admin. R.615-3-20, Gas Flaring or Venting.
6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Department of Environmental Quality, Division of Drinking Water/Sanitation, telephone (801) 538-6159.
7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-013-31334.

Sincerely,



R. J. Firth
Associate Director, Oil & Gas

tas
Enclosures
cc: Bureau of Land Management
J. L. Thompson
we14/1-2

DIVISION OF OIL, GAS AND MINING

WATER PERMIT OK

API NO. 43-013-31334

SPUDDING INFORMATION

NAME OF COMPANY: PENNZOIL EXPLORATION & PRODUCTION COMPANY

WELL NAME: LORANGER 6-22A2

SECTION SWSW 22 TOWNSHIP 1S RANGE 2W COUNTY DUCHESNE COUNTY

DRILLING CONTRACTOR BILL MARTIN

RIG # 1

SPUDDED: DATE 10-24-91

TIME 8:00 a.m.

HOW DRY HOLE

CONFIDENTIAL

DRILLING WILL COMMENCE 45 days - Four West #5

REPORTED BY DANNY LAMAN

TELEPHONE #

DATE 10-28-91 SIGNED TAS

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. Fee Land
2. NAME OF OPERATOR Pennzoil Exploration and Production Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 290; Neola, Utah 84053		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1082' FSL and 1119' FWL (SW SW)		8. FARM OR LEASE NAME Loranger
14. PERMIT NO. API 43 013 31334 00	15. ELEVATIONS (Show whether OF, AT, OR, etc.) 5668' (GL)	9. WELL NO. 6-22A2
		10. FIELD AND POOL, OR WILDCAT Bluebell-Wasatch
		11. SEC., T., R., M., OR B.LK. AND SURVEY OR AREA Sec. 22, T1S, R2W
		12. COUNTY OR PARISH Duchesne
		13. STATE Utah

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

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

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

See Attached 'Application for Temporary Change of Water Permit' and related information.

TIGHT HOLE

RECEIVED

NOV 14 1991

DIVISION OF OIL GAS & MINING

18. I hereby certify that the foregoing is true and correct
SIGNED SA Lambford TITLE Petroleum Engineer DATE 11/12/91

(This space for Federal or State office use)

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



DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER RIGHTS

Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Robert L. Morgan
State Engineer

1636 West North Temple, Suite 220
Salt Lake City, Utah 84116-3156
801-538-7240

October 28, 1988

Owen Dale Anderson
Robert Williams
C/O Dalbo Inc. P.O.Box 1168
Vernal, UT 84078

Dear Applicant:

RE: APPROVED CHANGE APPLICATION
NUMBER 43-9974 (a14289)

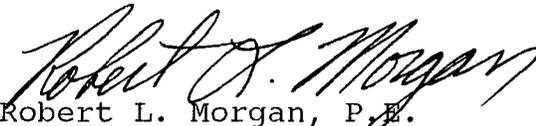
Enclosed is a copy of approved Change Application No. 43-9974 (a14289). This is your authority to proceed with the actual construction work which under Section 73-3-10 and 73-3-12, Utah Code Annotated, 1953, as amended, must be diligently prosecuted to completion. The water must be put to beneficial use and proof of appropriation be made to the State Engineer on or before June 30, 1992, otherwise, the application will be lapsed.

Proof of change is evidence to the State Engineer that the water has been placed to its full intended beneficial use. By law, it must be prepared by a registered engineer or land surveyor, who will certify to the location and the uses for the water. Your proof of change will become the basis for the extent of your water right.

Failure on your part to comply with the requirements of the statutes may result in forfeiture of this application.

Your contact with this office, should you need it, is with the Area Engineer, Robert Leake. The telephone number is (801)781-0770.

Sincerely,


Robert L. Morgan, P.E.
State Engineer

RLM:rc

Encl.: Copy of Approved Change Application
Memorandum Decision

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NOV 14 1991

DIVISION OF
OIL GAS & MINING

BEFORE THE STATE ENGINEER OF THE STATE OF UTAH

IN THE MATTER OF CHANGE APPLICATION)

CATION NUMBER 43-9974 (a14289))

) MEMORANDUM DECISION

Change Application Number 43-9974 (a14289) was filed by Owen Dale Anderson to change the place and nature of use of 20 acre-feet of water from a well as evidenced by Water Right 43-3525. Heretofore the water has been used for the irrigation of 53.70 acres, stockwatering of 250 equivalent livestock units, and fish culture in the N1/2NE1/4 of Section 27, T1S, R2W, USB&M. Hereafter, it is proposed to use the water for oil exploration and oil well service work purposes in Duchesne and Uintah Counties from January 1 through December 31.

The application was advertised in the Uintah Basin Standard from May 13, 1987, through May 27, 1987 and was protested by Ray C. & Clea P. Crow, Reita H. Hamblin, Sharon Pittman, Parley O. Alexander, James B. & Ruth J. Hamblin, Mr. & Mrs. Duane E. Hamblin, Gardell & Joyce Powell, Louis Loranger, Mr. & Mrs. S. Gail Anderton, Linda A. Bird, Ida L. Anderton, and Aaron L. Pace.

A hearing regarding the change application was held in Duchesne, Utah, on October 22, 1987.

The applicant was represented by Robert Williams who will be using the water under the change. He stated that he has been using the water for oil exploration purposes under temporary change applications during the last 10 to 12 years. The well is free flowing and when he needs water, he pumps from the well into trucks. He expressed that he would be willing to shut the well in and only use the water that he needs.

The general concern of the protestants was that there has been a decline in the ground water levels in the area, and that the use contemplated under this change would be an expansion on the right and would adversely affect their wells.

The State Engineer believes that since the water will be removed from the general vicinity and any previous return flows will be lost to the system, the depletion to the system under this change should be limited to the same quantity that was depleted prior to this change. Using the duty of 4.0 ac-ft per acre for irrigation and a 50% irrigation efficiency, 10 acres would need to be taken out of irrigation under 43-3585 to justify the 20 ac-ft. contemplated under this change.

The State Engineer believes that this change can be made without expanding the original right or adversely affecting the protestants if the irrigated acreage under Water Right 43-3525 is reduced by ten acres instead of five acres as was applied for under this change.

It is, therefore, ORDERED and Change Application Number 43-9974 (a14289) is hereby APPROVED, subject to prior rights and the following conditions:

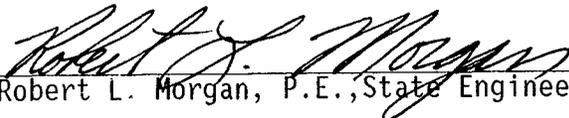
1. The irrigated acreage under Water Rights Number 43-3525 shall be reduced from 53.7 acres to 43.7 acres.

MEMORANDUM DECISION
APPLICATION NUMBER
43-9974 (a14289)
PAGE -2-

2. The well under this change application (a14289) shall be shut in to prevent the wasting of water and will be used by the applicant only as needed to satisfy the uses contemplated by this change.
3. A permanent totalizing meter shall be installed on the well, at the applicants expense to aid in the administration of this water right. The meter shall be available for inspection by the State Engineer or his authorized representative at all reasonable times.

This decision is subject to the provision of Section 73-3-14, Utah Code Annotated, 1953, which provides for plenary review by the filing of a civil action in the appropriate district court within sixty days from the date hereof.

Dated this 28th day of October, 1988.


Robert L. Morgan, P.E., State Engineer

RLM:RWL:ln

Mailed a copy of the foregoing Memorandum Decision this 28th day of October, 1988:

Owen Dale Anderson
c/o Dalbo Inc.
P.O. Box 1168
Vernal, UT 84078

Ray C. & Clea P. Crow
Route 1 Box 1412
Roosevelt, UT 84066

Reita H. Hamblin
Route 1 Box 1456
Roosevelt, UT 84066

Sharon Pittman
Route 1 Box 1420
Roosevelt, UT 84066

Parley O. Alexander
Route 1 Box 1465
Roosevelt, UT 84066

MEMORANDUM DECISION
APPLICATION NUMBER
43-9974 (a14289)
PAGE -3-

James B. & Ruth J. Hamblin
Route 1 Box 1428
Roosevelt, UT 84066

Mr. & Mrs. Duane E. Hamblin
Route 1 Box 1436
Roosevelt, UT 84066

Gardell & Joyce Powell
Route 1 Box 1425
Roosevelt, UT 84066

Louis Loranger
Route 1 Box 1410
Roosevelt, UT 84066

Linda A. Bird & Ida L. Anderton
Route 1 Box 1473
Roosevelt, UT 84066

Aaron L. Pace
Route 1 Box 1406
Roosevelt, UT 84066

Mr. & Mrs. S. Gail Anderton
Route 1 Box 1472
Roosevelt, UT 84066

By:


Robin Campbell, Secretary

APPLICATION FOR PERMANENT CHANGE OF WATER

RECEIVED

RECEIVED

NOV 14 1991

STATE OF UTAH

APR 17 1987

Rec. by DL
Fee Paid \$ 15.00
Receipt # 22150
Microfilmed _____
Roll # _____

DIVISION OF

WATER RIGHTS
SALT LAKE

For the purpose of obtaining a permit to make a permanent change of water in the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

*WATER USER CLAIM NO. 43-9974 *APPLICATION NO. a-14289

Changes are proposed in (check those applicable)

- _____ point of diversion. _____ point of return.
- place of use. nature of use.

1. OWNER INFORMATION

Name: Owen Dale Anderson *Interest: _____%
Address: PO Box 1168 Vernal UT 84078

2. *PRIORITY OF CHANGE: _____ *FILING DATE: _____

*Is this change amendatory? (Yes/No): _____

3. RIGHT EVIDENCED BY: 43-3525

Prior Approved Change Applications for this right: 83-43-21 84-43-73 614099

***** HERETOFORE *****

4. QUANTITY OF WATER: 0.5 cfs and/or _____ ac-ft.

5. SOURCE: U.G.W (well)

6. COUNTY: Duchesne

7. POINT(S) OF DIVERSION: South 1167 ft East 340 ft from N 1/4 Corner Section 27 T1S, R2W, USB+M

Description of Diverting Works: _____

8. POINT(S) OF REDIVERSION

The water will be rediverted from _____ at a point: _____

Description of Diverting Works: _____

9. POINT(S) OF RETURN

The amount of water consumed is _____ cfs or _____ ac-ft.

The amount of water returned is _____ cfs or _____ ac-ft.

The water will be returned to the natural stream/source at a point(s): _____

*These items are to be completed by Division of Water Rights.

Permanent Change

10. NATURE AND PERIOD OF USE

Stockwatering: From Jan 1 to Dec 31
Domestic: From to
Municipal: From to
Mining: From to
Power: From to
Other: From Jan 1 to Dec 31
Irrigation: From April 1 to Oct 31

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NOV 14 1991

DIVISION OF OIL GAS & MINING

11. PURPOSE AND EXTENT OF USE

Stockwatering (number and kind): 250 Livestock Units
Domestic: Families and/or Persons.
Municipal (name):
Mining: Mining District in the Mine.
Ores mined:
Power: Plant name: Type: Capacity:
Other (describe): drilling + completion of oil field locations fish culture
Irrigation: 55.7 acres. Sole supply of acres

12. PLACE OF USE

Legal description of areas of use other than irrigation by 40 acre tract: n/a

13. STORAGE

Reservoir Name: Unnamed Storage Period: from 11-1 to 3-31
Capacity: 4.0 ac-ft. Inundated Area: acres
Height of dam: feet
Legal description of inundated area by 40 tract: NW NE Sec 27, T15 R2W 25B+M

***** THE FOLLOWING CHANGES ARE PROPOSED *****

14. QUANTITY OF WATER: cfs and/or 20.0 ac-ft
15. SOURCE: UGW Remaining Water: same
16. COUNTY: Duchesne
17. POINT(S) OF DIVERSION: same

Description of Diverting Works:

18. POINT(S) OF REDIVERSION

The water will be rediverted from at a point:

Description of Diverting Works:

19. POINT(S) OF RETURN

The amount of water consumed is _____ cfs or _____ ac-ft

The amount of water returned is _____ cfs or _____ ac-ft

The water will be returned to the natural stream/source at a point(s): _____

20. NATURE AND PERIOD OF USE

Stockwatering: From _____ to _____

Domestic: From _____ to _____

Municipal: From _____ to _____

Mining: From _____ to _____

Power: From _____ to _____

Other: From Jan 1 to Dec 31

Irrigation: From _____ to _____

RECEIVED

NOV 14 1991

DIVISION OF OIL GAS & MINING

21. PURPOSE AND EXTENT OF USE

Stockwatering (number and kind): _____

Domestic: _____ Families and/or _____ Persons

Municipal (name): _____

Mining: _____ Mining District in the _____ Mine

Ores mined: _____

Power: Plant name: _____ Type: _____ Capacity: _____

Other (describe): drilling and completion of oil wells

Irrigation: _____ acres. Sole supply of _____

22. PLACE OF USE

Legal description of areas of use by 40 acre tract: _____

Other: hauled to locations by water trucks as needed

23. STORAGE

Reservoir Name: _____ Storage Period: from _____ to _____

Capacity: _____ ac-ft. Inundated Area: _____ acres

Height of dam: _____ feet

Legal description of inundated area by 40 tract: _____

24. EXPLANATORY

The following is set forth to define more clearly the full purpose of this application. Include any supplemental water rights used for the same purpose. (Use additional pages of same size if necessary): _____

Change is for oilfield drilling and exploration.

Approximately 4 acre ft^{acres} will be taken from

irrigation purposes and used for oilfield purposes
Acres to be irrigated will change from ~~55.7~~ to ~~50~~ acres
because of the change in use. ~~53.7~~ 48.7

The undersigned hereby acknowledges that even though he/she/they may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of the information contained herein, at the time of filing, rests with the applicant(s).

Dwain Dale Anderson
Signature of Applicant(s)

STATE ENGINEER'S ENDORSEMENT

CHANGE APPLICATION NUMBER: a14289

WATER RIGHT NUMBER: 43 - 9974

1. April 8, 1987 Change Application received.
2. April 8, 1987 Priority of Change Application.
3. April 15, 1987 Application reviewed and approved for advertising by RWL.
 May 13, 1987 Publication began in Uintah Basin Standard.
 July 13, 1987 Publication completed and verified by SA.
4. June 26, 1987 End of protest period.
 Application protested: YES (see comments below.)
5. October 18, 1988 Application designated for APPROVAL by RWL and KLJ.
6. Comments:
 Protested By: Louis Loranger 5-29-87, Mr. & Mrs. S. Gail Anderton 5-29-87,
 Linda A. Bird 5-29-87, Aaron L. Pace 6-1-87. R&C Crow 5-29-87. R. Hamblin, S.
 Pittman, P. Alexander, J&R Hamblin, Mr& Mrs. Duane Hamblin, G&J Powell 6-8-87.

Conditions:

This application is hereby APPROVED by Memorandum Decision, dated October 28, 1988, subject to prior rights and the following conditions:

- a. Actual construction work necessitated by proposed change shall be diligently prosecuted to completion.
- b. Proof of change shall be submitted to the State Engineer's Office by June 30, 1992.


Robert L. Morgan, P.E.
State Engineer

Time for making Proof of Change extended to _____

Proof submitted _____

RECEIVED

DEC 26 1991

REPORT OF WATER ENCOUNTERED DURING DRILLING - FORM 7 (1/89)

DIVISION OF
OIL GAS & MINING

1. Well name and number: Loranger 6-22A2
API number: 43 013 31334 00
2. Well location: QQ NW section 22 township 1S range 2W county Duchesne
3. Well operator: Penzoil Exlporation and Production Company
Address: P.O. Box 290 phone: (801) 353-4397
Neola, Utah 84053
4. Drilling contractor: Forwest LTD (Rig#5)
Address: 11211 Katy Freeway suite 530 phone: _____
Houston, Texas 77079

5. Water encountered (continue on reverse side if necessary)

Depth		Volume (flow rate or head)	Quality (fresh or salty)
from	to		
700'		2" stream	fresh
2150'		2" stream	fresh

6. Formation tops: _____

If an analysis has been made of the water encountered, please attach a copy of the report to this form.

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

Name D.R. Lankford Signature DR Lankford
 Title Petroleum Engineer Date 12/24/91

Comments: Samples picked up by Mike Heberon, Utah DOGM 12/19/91 and 12/23/91

STATE OF UTAH
 DIVISION OF OIL, GAS AND MINING
 ENTITY ACTION FORM - FORM 6

OPERATOR Pennzoil Expl. + Prod. Co.
 ADDRESS P.O. Box 2967
Houston, Tx 77252-2967

OPERATOR ACCT. NO. 12885

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	11335	430133133400	Loranger 6-22A2	SWSW	22	15	2W	Duchesne	12/15/91	12/15/91
WELL 1 COMMENTS: Fee-Lease Prop. Zone - WSTC Field - Bluebell Entity added 1-16-92. Unit - N/A											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)
 A - Establish new entity for new well (single well only)
 B - Add new well to existing entity (group or unit well)
 C - Re-assign well from one existing entity to another existing entity
 D - Re-assign well from one existing entity to a new entity
 E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)



JAN 13 1992
 DIVISION OF
 OIL GAS & MINING

Elizabeth D. Graybe
 Signature
Accountant 1/10/92
 Title Date
 Phone No. 713 546-6969

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Pennzoil Exploration and Production Company

3. ADDRESS OF OPERATOR
P.O. Box 290; Neola, Utah 84053

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
1082' FSL and 1119' FWL (SW SW)

14. PERMIT NO.
API 43 013 31334

15. ELEVATIONS (Show whether OF, RT, OR, etc.)
5668' (GL)

5. LEASE DESIGNATION AND SERIAL NO.
Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Loranger

9. WELL NO.
6-22A2

10. FIELD AND POOL, OR WILDCAT
Blubell-Wasatch

11. SEC., T., S., M., OR BLK. AND SURVEY OR AREA
Sec. 22, T1S, R2W

12. COUNTY OR PARISH
Duchesne

13. STATE
Utah

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <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) Report of Spud <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.) *

Well was spudded with Forwest Rig # 5 6:30 PM, Dec. 15, 1991.

TIGHT HOLE

RECEIVED

JAN 24 1992

DIVISION OF
OIL GAS & MINING

18. I hereby certify that the foregoing is true and correct
SIGNED DR Lamberson TITLE Petroleum Engineer DATE 12/20/91

(This space for Federal or State office use)

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

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. Fee
2. NAME OF OPERATOR Pennzoil Exploration and Production Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 290; Neola, Utah 84053		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1082' FSL and 1119' FWL (SW SW)		8. FARM OR LEASE NAME Loranger
14. PERMIT NO. API 43 013 31334	15. ELEVATIONS (Show whether OF, RT, OR, etc.) 5668' (GL)	9. WELL NO. 6-22A2
		10. FIELD AND POOL, OR WILDCAT Blubell-Wasatch
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 22, T1S, R2W
		12. COUNTY OR PARISH Duchesne
		13. STATE Utah

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL 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) Report of Spud <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

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

Well was spudded with Forwest Rig # 5 6:30 PM, Dec. 15, 1991.

TIGHT HOLE

RECEIVED

JAN 24 1992

DIVISION OF OIL GAS & MINING

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

SIGNED DR Campbell TITLE Petroleum Engineer DATE 12/20/91

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

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

SUNDRY NOTICES AND REPORTS ON WELLS <small>(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.)</small>		5. LEASE DESIGNATION AND SERIAL NO. Fee .
1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR Pennzoil Exploration and Production Company		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR P.O. Box 290; Neola, Utah 84053		8. FARM OR LEASE NAME Loranger
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1082' FSL and 1119' FWL (SW SW)		9. WELL NO. 6-22A2
14. PERMIT NO. API 43 013 31334		10. FIELD AND FOOT, OR WILDCAT Blubell-Wasatch
15. ELEVATIONS (Show whether OF, RT, OR, etc.) 5668' (GL)		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 22, T1S, R2W
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		12. COUNTY OR PARISH 13. STATE Duchesne Utah

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

Well was spudded with Forwest Rig # 5 6:30 PM, Dec. 15, 1991.

TIGHT HOLE

RECEIVED

JAN 24 1992

DIVISION OF
OIL GAS & MINING

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

SIGNED *D. J. Lamb* TITLE Petroleum Engineer DATE 12/20/91

(This space for Federal or State office use)

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



ROCKY MOUNTAIN GEO-ENGINEERING CO.

WELL SITE GEOLOGY - MUD LOGGING - ANALYTICAL LABORATORY SERVICES

2450 INDUSTRIAL BLVD.

PHONE (303) 243 3344

GRAND JUNCTION, COLORADO 81505

LETTER OF TRANSMITTAL

DATE: February 18, 1992

TO: RON SCHNEIDER

COMPANY: PENNZOIL COMPANY

ADDRESS: 700 MILAM

CITY/STATE/ZIP: HOUSTON, TX 77002

WELL NAME: LORANGER 6-22A2

LOCATION: SECTION 22, T1S, R2W

COUNTY/STATE: DUCHESNE COUNTY, UTAH

RECEIVED

FEB 21 1992

DIVISION OF
OIL GAS & MINING

43-013-31334
copy

Enclosed find final logs on the above referenced well. If you have any questions, please feel free to contact us.

Thank you for the opportunity to be of service to you.

Respectfully,

Andy Kelley

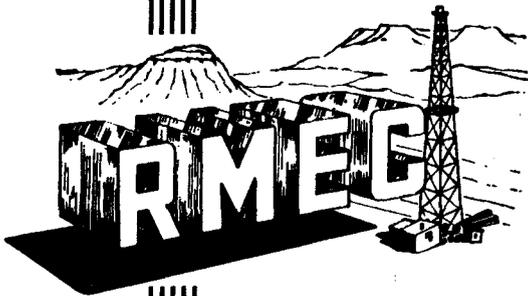
Andy Kelley
President

AWK:by

ENC: 4 Final Logs/Bit Record/Directional Survey/Show Reports

CC: 1 Final Log/Report; Pennzoil; Danny Laman; Neola, UT
1 Final Log/Report; Utah Oil, Gas & Mining; SLC, UT
3 Final Logs/Reports; ANR Coastal O&G; J.R. Kennedy; Denver, CO
1 Final Log/Report; Convest Energy Corp.; D. Steven Tipton; Houston, TX
1 Final Log/Report; Flying J O&G Inc.; Tonna Winkler; North SLC, UT
1 Final Log/Report; Forcenergy Center; Ken Fagan; Miami, FL

DRY CUTS: 1 Set shipped UPS 2/13/92; Ron Schneider; Pennzoil; Houston, TX
1 Set shipped UPS 2/13/92; Utah Oil, Gas & Mining; SLC, UT



PENNZOIL COMPANY
LORANGER 6-22A2
SECTION 22, T1S, R2W
DUCHESNE COUNTY, UTAH

ROCKY MOUNTAIN GEO-ENGINEERING CO.
— WELL SITE GEOLOGY & MUD LOGGING —

2450 Industrial Blvd. Grand Junction, Colorado 81505
Phone (303) 243-3044

ROCKY MOUNTAIN GEO-ENGINEERING CO.
BIT RECORD - FT PER/DAY

WELL NAME:	<u>LORANGER 6-22A2</u>	ELEVATION:	<u>GL-5666', KB-5689'</u>
COMPANY:	<u>PENNZOIL CO</u>	SECTION:	<u>22, T1S, R2W</u>
CONTRACTOR:	<u>FORWEST #5</u>	COUNTY & STATE:	<u>DUCHESNE, UT</u>
SPUD DATE:	<u>12-15-91</u>	T.D. DATE:	<u>2-11-92</u>

BIT RECORD								FT PER/DAY			FT PER/DAY		
RUN	SIZE	MAKE	TYPE	W/O	FTG	HOURS	FT/HR	DATE	DEPTH	FT	DATE	DEPTH	FT
1	13 1/2	HTC	OSC	900	827	36.5	22.7	12-27-91	6000	26			
2	"	REED	HP51A	3519	2619	63.0	41.6	12-28	6026	410			
3	9 7/8	STC	F2	5708	2189	74.5	29.4	12-29	6436	364			
4	"	REED	HP63	7433	1725	108.5	15.9	12-30	6800	400			
5	"	STC	F5	9335	1902	122	15.6	12-31	7200	236			
6	"	STC	F5	10700	1365	59.5	22.9	1-1-92	7436	426			
7	6 1/4	STC	FDT	10705	5	1.0	5.0	1-2	7862	408			
8	"	SEC	M89TF	11231	526	70.0	7.5	1-3	8270	352			
9	"	STC	F4A	11689	458	57.5	7.9	1-4	8622	323			
10	"	SEC	M89TF	11730	41	7.0	5.9	1-5	8945	317			
11	"	STC	F4A	11956	226	45.5	4.9	1-6	9262	120			
12	"	STC	F4A	12338	382	65.0	5.8	1-7	9382	524			
13	"	STC	F4A	12748	410	79.5	5.2	1-8	9906	650			
14	"	STC	F4A	13287	539	95.0	5.7	1-9	10556	144			
15	"	STC	F-2	13950	663	111.5	5.9	1-10	10700	--			
				TD				1-11	10700	--			
								1-12	10700	--			
								1-13	10700	--			
								1-14	10700	2			
								1-15	10702	36			
								1-16	10738	186			
								1-17	10924	192			
								1-18	11116	115			
								1-19	11231	112			
								1-20	11343	203			
								1-21	11546	143			
								1-22	11689	29			
								1-23	11718	34			
								1-24	11752	134			
								1-25	11886	70			
								1-26	11956	104			
								1-27	12060	140			
								1-28	12200	138			
								1-29	12338	44			
								1-30	12382	120			
								1-31	12502	124			
								2-1-92	12626	120			
								2-2	12746	51			
								2-3	12797	129			
								2-4	12926	142			
								2-5	13068	134			
								2-6	13202	84			
								2-7	13286	106			
								2-8	13392	153			
								2-9	13545	134			
								2-10	13679	143			
								2-11	13822	88			
								2-12	13950	TD			

SHOW REPORT

DATE 12/29/91	WELL NAME LORANGER 6-22A2	SHOW REPORT # 1
FORMATION GREEN RIVER		DEPTH OF SHOW INTERVAL 6448' - 6482'
AVERAGE DRILL RATE	BEFORE SHOW 3.5 MIN/FT	DURING SHOW 2 MIN/FT
	AFTER SHOW 3.5 MIN/FT	
AVERAGE OF TOTAL GAS	BEFORE SHOW 2 UNITS	DURING SHOW 43 UNITS
	AFTER SHOW 9 UNITS	

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

6460' SPL 90%SH, 10%SS

SH 50%bn, 40ltgy, 10gn frm-mod sft, dol ip, occ mod calc, slty ip, NFSOC

SS clr-trnsl, gybn, vf-fgr, sbang-sbrnd, wsrt, pcmt, pred unconsol, sl calc cmt, cly fil cmt, arg ip, occ carb incl, NFSOC, occ tr stn, fr/gd poro

GAS INFORMATION NO FLARES

DEPTH (FEET)	6440	6452	6482			
DRILL RATE (MIN/FT)	3.5	2	3.5			
TOTAL GAS (UNITS)	2	43	9			
C1 (PPM)	200	3600	540			
C2 (PPM)	TR	288	72			
C3 (PPM)	TR	336	56			
IC4 (PPM)		140	8			
NC4 (PPM)		200	15			
NET INCREASE (UNITS)		41	7			
RATIO (PK: BG)		21.5	4.5			

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

TR OIL IN MUD

POOR SHOW

CORRELATION WITH CONTROL WELL(S)

MUD WEIGHT	IN/ 8.3	OUT/ 8.3	DRLG W/ WTR
FLARE	BEFORE/ 0	DURING/ 0	AFTER/ 0

SHOW REPORT

DATE 12/29/91	WELL NAME LORANGER 6-22A2	SHOW REPORT # 2
FORMATION GREEN RIVER		DEPTH OF SHOW INTERVAL 6669-6674
AVERAGE DRILL RATE	BEFORE SHOW 4.5 MIN/FT	DURING SHOW 2.75 MIN/FT
	AFTER SHOW 4 MIN/FT	
AVERAGE OF TOTAL GAS	BEFORE SHOW 20 UNITS	DURING SHOW 88 UNITS
	AFTER SHOW 40 UNITS	

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

6680 SPL 90% SH, 10% SS

SH 80% bn, 10% lt gy, 10 yel SH ltn, tnbn, yelbn, frm-brit ip, v dol, sl slty,

mod bri yel flor, slo fnt strmg cut, fr mlky pool, mod res rng, no vis stn

SS clr-trnsl, vf-fgr, sbang-sbrnd, consol, wsrt, mcmt, fri, cly fil calc cmt,

NFSOC tr ø

GAS INFORMATION

DEPTH (FEET)	6668	6672	6675	6678		
DRILL RATE (MIN/FT)	4.5	2.75	4	3.5		
TOTAL GAS (UNITS)	20	88	40	26		
C1 (PPM)	1310	7890	3360	2110		
C2 (PPM)	120	588	264	180		
C3 (PPM)	76	336	168	91		
IC4 (PPM)	28	114	38	22		
NC4 (PPM)	37	156	52	35		
NET INCREASE (UNITS)		68	20	6		
RATIO (PK: BG)		4.4	2.0	1.3		

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

SL INCR IN BN OIL IN MUD (BN)

CORRELATION WITH CONTROL WELL(S)

DRLG / WTR

MUD WEIGHT IN/ **8.4** OUT/ **8.3+**

FLARE BEFORE/ **0** DURING/ **0** AFTER/ **0**

SHOW REPORT

DATE 12/29/91	WELL NAME LORANGER 6-22A2	SHOW REPORT # 3
FORMATION GREEN RIVER		DEPTH OF SHOW INTERVAL 6710-6714
AVERAGE DRILL RATE	BEFORE SHOW 5 MIN/FT	DURING SHOW 3 MIN/FT
		AFTER SHOW 3-3.5 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 10 UNITS	DURING SHOW 100 UNITS
		AFTER SHOW 30 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

6710 SMPL 90% SH, 10% SS

SH 70% bn, 10% qn, 20% lg: SH lt-m bn, gybn, frm-brit ip, v dol, slty ip, mod bri orngbn
min flor, slo fnt strmq cut, fr mlky cut, mod res rmg, no vis stn,

SS clr-trnsl, vf-fgr, wsrt, sbanq-sbrnd, pcmt-uncons, fri calc cmt ip, arg cmt ip,
NFSOC tr pp ø

GAS INFORMATION

DEPTH (FEET)	6708	6712	6715			
DRILL RATE (MIN/FT)	4	3	3.5			
TOTAL GAS (UNITS)	12	100	34			
C1 (PPM)	720	9600	3000			
C2 (PPM)	48	684	240			
C3 (PPM)	56	336	112			
IC4 (PPM)	19	152	56			
NC4 (PPM)	26	104	52			
NET INCREASE (UNITS)		88	22			
RATIO (PK: BG)		8.3	2.8			

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

sl incr in bn oil in drlg fluid

CORRELATION WITH CONTROL WELL(S)

DRLG / WTR

MUD WEIGHT	IN/ 8.3	OUT/ 8.4
FLARE	BEFORE/ 0	DURING/ 0 AFTER/ 0

SHOW REPORT

DATE 12/30/91	WELL NAME loranger 6-22A2	SHOW REPORT # 4
FORMATION GREEN RIVER		DEPTH OF SHOW INTERVAL 6938' - 6950'
AVERAGE DRILL RATE	BEFORE SHOW 4.5 MIN/FT	DURING SHOW 2 MIN/FT
	AFTER SHOW 4 MIN/FT	
AVERAGE OF TOTAL GAS	BEFORE SHOW 36 UNITS	DURING SHOW 78 UNITS
	AFTER SHOW 40 UNITS	

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

6950 SPL 80%SH, 20%SS

SH 90%bn, 10ltgy SH 1tbn, tbn, yelbn, ltmbn, frm-mod hd, brit ip, v dol,

DUL ORNG FLOR, FST STRMG CUT, GD MLKY POOL, MOD BRI RES RNG

SS clr-trnsl, 1tbn, vf-occ fgr, sbrnd-sbang, wsrt, pcmt, v fri, pred consol, mod calc,

cln, DUL YELORNG FLOR, FNT STRMG CUT, FR MLKY POOL, MOD BRI RES RNG, tr poro

GAS INFORMATION

NO FLARES

DEPTH (FEET)	6937	6940	6943	6948	6951	
DRILL RATE (MIN/FT)	4.5	2	3	2.5	4	
TOTAL GAS (UNITS)	36	72	61	78	40	
C1 (PPM)	1190	1520	1410	1599	1201	
C2 (PPM)	180	324	251	395	171	
C3 (PPM)	110	240	199	301	119	
IC4 (PPM)	54	96	82	99	59	
NC4 (PPM)	40	64	57	72	42	
NET INCREASE (UNITS)		36	25	42	4	
RATIO (PK: BG)		2.0	1.7	2.2	1.1	

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

SL INCR IN BN OIL IN MUD

CORRELATION WITH CONTROL WELL(S)

DRLG W/ WTR

MUD WEIGHT	IN/ 8.4	OUT/ 8.4			
FLARE	BEFORE/ 0	DURING/ 0	AFTER/ 0		

SHOW REPORT

DATE 12/30/91	WELL NAME LORANGER 6-22A2	SHOW REPORT # 5
FORMATION GREEN RIVER		DEPTH OF SHOW INTERVAL 6992' - 7018'
AVERAGE DRILL RATE	BEFORE SHOW 3.5 MIN/FT	DURING SHOW 2.5 MIN/FT
		AFTER SHOW 3.5 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 40 UNITS	DURING SHOW 140 UNITS
		AFTER SHOW 120 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

7020' SPL 90%SH, 10%SS

SH 90%bn, 10%ltgy SH lt-ltmbn,yelbn,tnbn,v dol,slty-sl sdy,ORNG YEL FLOR,

FST STRMG CUT,GD MLKY POOL,MOD RES RNG

SS clr,ltm-bn,vf-occ fgr,sbrnd-sbang,wsrt,pcmt,consol,v fri,DUL YELORNG FLOR,

FNT STRMG CUT,FR MLKY POOL,MOD RES RNG,fr ∅,no vis stn

GAS INFORMATION NO FLARES

DEPTH (FEET)	6982	6988	6995	7001	7012	7020
DRILL RATE (MIN/FT)	3.5	3	2.5	4.5	2.5	3.5
TOTAL GAS (UNITS)	40	55	79	74	140	120
C1 (PPM)	1260	2380	6800	6310	12010	10208
C2 (PPM)	231	304	362	337	711	612
C3 (PPM)	160	220	329	310	560	500
IC4 (PPM)	61	74	90	91	276	240
NC4 (PPM)	50	63	79	81	176	160
NET INCREASE (UNITS)		15	39	34	100	80
RATIO (PK: BG)		1.4	1.9	1.6	3.5	3.0

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

FR INCR IN BN OIL IN MUD

CORRELATION WITH CONTROL WELL(S)

DRLG W/ WTR

MUD WEIGHT	IN/ 8.4	OUT/ 8.4			
FLARE	BEFORE/ 0	DURING/ 0	AFTER/ 0		

SHOW REPORT

DATE 12/31/91	WELL NAME LORANGER 6-22A2	SHOW REPORT # 6
FORMATION GREEN RIVER		DEPTH OF SHOW INTERVAL 7220-25
AVERAGE DRILL RATE	BEFORE SHOW 3.75 MIN/FT	DURING SHOW 2 MIN/FT
	AFTER SHOW 4 MIN/FT	
AVERAGE OF TOTAL GAS	BEFORE SHOW 70 UNITS	DURING SHOW 136 UNITS
	AFTER SHOW 76 UNITS	

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

7230 SPL 100% SH

SH lt-dkbn, tan, yelbn, sft-mfrm, sbplty-sbblky, dol, slty-sl sdy, calc ip, orng bn min flor / fst strmg cut, gd pool / dull yel resd rng, fr ø, no vis stn, no flare.

GAS INFORMATION

DEPTH (FEET)	7214	7224	7234			
DRILL RATE (MIN/FT)	3.75	2	4			
TOTAL GAS (UNITS)	70	136	76			
C1 (PPM)	4400	11,176	5544			
C2 (PPM)	360	648	432			
C3 (PPM)	240	560	320			
IC4 (PPM)	190	384	288			
NC4 (PPM)	96	128	96			
NET INCREASE (UNITS)		66	6			
RATIO (PK: BG)		1.9	1.08			

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

tr oil over shaker

CORRELATION WITH CONTROL WELL(S)

drlg / wtr

MUD WEIGHT	IN/	8.3	OUT/	8.4
FLARE	BEFORE/	0	DURING/	0
			AFTER/	0

SHOW REPORT

DATE 12/31/91	WELL NAME loranger 6-22A2	SHOW REPORT # 7
FORMATION GREEN RIVER		DEPTH OF SHOW INTERVAL 7322' - 7326'
AVERAGE DRILL RATE	BEFORE SHOW 4.5 MIN/FT	DURING SHOW 3 MIN/FT
		AFTER SHOW 4 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 92 UNITS	DURING SHOW 296 UNITS
		AFTER SHOW 120 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

7330' SPL 100%SH - bn

SH ltb,mbn,mkbn,tnbn,ltnbn,yelbn,sft to mod hd,v dol,slty-sl sdy ip,MOD ORNG

FLOR,FST STRMG CUT,GD MLKY POOL,MOD BRI RES RNG

GAS INFORMATION NO FLARES

DEPTH (FEET)	7321	7325	7328		
DRILL RATE (MIN/FT)	4.5	3	4		
TOTAL GAS (UNITS)	92	296	120		
C1 (PPM)	7610	18304	8096		
C2 (PPM)	450	1332	576		
C3 (PPM)	387	1520	480		
IC4 (PPM)	298	1056	408		
NC4 (PPM)	137	512	192		
NET INCREASE (UNITS)		204	28		
RATIO (PK: BG)		3.2	1.3		

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

SL INCR BN OIL IN MUD

CORRELATION WITH CONTROL WELL(S)

DRLG W/ WTR

MUD WEIGHT	IN/ 8.4	OUT/ 8.4
FLARE	BEFORE/ 0	DURING/ 0 AFTER/ 0

SHOW REPORT

DATE 1-1-92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 8
FORMATION GREEN RIVER		DEPTH OF SHOW INTERVAL 7449-7452
AVERAGE DRILL RATE	BEFORE SHOW 3.5 MIN/FT	DURING SHOW 3 MIN/FT
	AFTER SHOW 3 MIN/FT	
AVERAGE OF TOTAL GAS	BEFORE SHOW 50 UNITS	DURING SHOW 180 UNITS
	AFTER SHOW 70 UNITS	

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

SMPL 7450, 100% SH BN

SH lt-dkbn, tnbn, yelbn, sft-vfrm, dol, slty ip, orngbn flor / fst strmq cut

gd bri mlky pool / yel resd rng

NO FLARE

GAS INFORMATION

DEPTH (FEET)	7445	7450	7455		
DRILL RATE (MIN/FT)	3.5	3	3		
TOTAL GAS (UNITS)	50	180	70		
C1 (PPM)	4400	14960	5720		
C2 (PPM)	360	1152	396		
C3 (PPM)	280	960	360		
IC4 (PPM)	144	384	192		
NC4 (PPM)	128	256	160		
NET INCREASE (UNITS)		130	20		
RATIO (PK: BG)		3.6	1.4		

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

tr oil over shaker

CORRELATION WITH CONTROL WELL(S)

drlg / wtr

MUD WEIGHT	IN/	8.4	OUT/	8.4
FLARE	BEFORE/	0	DURING/	0
	AFTER/	0		

SHOW REPORT

DATE 1-1-92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 10
FORMATION GREEN RIVER		DEPTH OF SHOW INTERVAL 7784-7790
AVERAGE DRILL RATE	BEFORE SHOW 3.5 MIN/FT	DURING SHOW 4 MIN/FT
	AFTER SHOW 4 MIN/FT	
AVERAGE OF TOTAL GAS	BEFORE SHOW 40 UNITS	DURING SHOW 448 UNITS
	AFTER SHOW 200 UNITS	

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

SMPL 7790 SH bn 100%

SH lt-dkbn, tan, buff, sbplty-blky, frm, dol, calc ip, mrlly, slty ip,
ornng flor / flash cut, bn stn, bri yel pool / yel resd rng, yelbn ip

NO FLARE

GAS INFORMATION

DEPTH (FEET)	7780	7785	7794		
DRILL RATE (MIN/FT)	3.5	4	4		
TOTAL GAS (UNITS)	40	448	200		
C1 (PPM)	2900	36080	21472		
C2 (PPM)	216	3168	1872		
C3 (PPM)	160	2560	1280		
IC4 (PPM)	144	1536	576		
NC4 (PPM)	80	768	256		
NET INCREASE (UNITS)		408	160		
RATIO (PK: BG)		11.2	5		

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

sm blk oil over shkr, blkbn ip

CORRELATION WITH CONTROL WELL(S)

drlg / wtr

MUD WEIGHT	IN/ 8.4	OUT/ 8.4
FLARE	BEFORE/ 0	DURING/ 0 AFTER/ 0

SHOW REPORT

DATE 1/2/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 11
FORMATION GREEN RIVER		DEPTH OF SHOW INTERVAL 8017' - 8021'
AVERAGE DRILL RATE	BEFORE SHOW 3.5 MIN/FT	DURING SHOW 2.5 MIN/FT
		AFTER SHOW 3 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 105 UNITS	DURING SHOW 200 UNITS
		AFTER SHOW 120 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

8020' SPL 100% SH

SH dkbn, tbn, frm-mod hd, v dol, sl slty, TR DUL ORNG FLOR, FST STRMG CUT,

GD MLKY POOL, MOD BRI YELBN RES RNG

GAS INFORMATION

NO FLARES

	8016	8019	8022		
DEPTH (FEET)	8016	8019	8022		
DRILL RATE (MIN/FT)	3.5	2.5	3		
TOTAL GAS (UNITS)	105	200	120		
C1 (PPM)	9300	16900	10090		
C2 (PPM)	750	1472	960		
C3 (PPM)	710	1044	720		
IC4 (PPM)	289	352	298		
NC4 (PPM)	170	240	180		
NET INCREASE (UNITS)		95	15		
RATIO (PK: BG)		1.9	1.1		

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

SL INCR BLK/BN OIL IN MUD

CORRELATION WITH CONTROL WELL(S)

DRLG W/ WTR

MUD WEIGHT	IN/	8.4	OUT/	8.4
FLARE	BEFORE/	0	DURING/	0
			AFTER/	0

SHOW REPORT

DATE 1-2-92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 12
FORMATION GREEN RIVER		DEPTH OF SHOW INTERVAL 8130-8134'
AVERAGE DRILL RATE	BEFORE SHOW 3 MIN/FT	DURING SHOW 3.5 MIN/FT
		AFTER SHOW 4 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 120 UNITS	DURING SHOW 240 UNITS
		AFTER SHOW 128 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

8130-8140 SPL, 100% BN

SH m-dk bn, tr ltbn, m-vfrm, v dol, slty, orngbn flor / fst strmg cut

bri mlky pool / yel resd rng

GAS INFORMATION

DEPTH (FEET)	8129	8133	8135		
DRILL RATE (MIN/FT)	3	3.5	4		
TOTAL GAS (UNITS)	120	240	128		
C1 (PPM)	9200	16960	8960		
C2 (PPM)	850	1696	896		
C3 (PPM)	760	1584	864		
IC4 (PPM)	205	594	352		
NC4 (PPM)	110	480	320		
NET INCREASE (UNITS)		100	8		
RATIO (PK: BG)		2.0	1.1		

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

reverse break

CORRELATION WITH CONTROL WELL(S)

drlg / wtr

MUD WEIGHT	IN/ 8.4	OUT/ 8.4
FLARE	BEFORE/ 0	DURING/ 0 AFTER/ 0

SHOW REPORT

DATE 1/3/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 13
FORMATION GREEN RIVER		DEPTH OF SHOW INTERVAL 8381' - 8386'
AVERAGE DRILL RATE	BEFORE SHOW 3.5 MIN/FT	DURING SHOW 2.5 MIN/FT
	AFTER SHOW 3.5 MIN/FT	
AVERAGE OF TOTAL GAS	BEFORE SHOW 80 UNITS	DURING SHOW 176 UNITS
	AFTER SHOW 96 UNITS	

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

8390' SPL 100%bn

SH dkbn, frm-hd, brit ip, v dol, sl slty ip, TR DUL ORNG FLOR

FST STRMG CUT, MOD BRI MLKY POOL, MOD STRNG YELBN RES RNG

GAS INFORMATION **NO FLARES**

DEPTH (FEET)	8380	8383	8387		
DRILL RATE (MIN/FT)	3.5	2.5	3.5		
TOTAL GAS (UNITS)	80	176	96		
C1 (PPM)	6768	12400	7201		
C2 (PPM)	616	1232	704		
C3 (PPM)	496	1152	608		
IC4 (PPM)	242	506	286		
NC4 (PPM)	180	480	225		
NET INCREASE (UNITS)		96	16		
RATIO (PK: BG)		2.2	1.2		

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

SL INCR BN/BLK OIL IN MUD

CORRELATION WITH CONTROL WELL(S)

DRLG W/WTR					
MUD WEIGHT	IN/	8.4	OUT/	8.4	
FLARE	BEFORE/	0	DURING/	0	AFTER/ 0

SHOW REPORT

DATE 1/3/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 14
FORMATION GREEN RIVER		DEPTH OF SHOW INTERVAL 8394' - 8399'
AVERAGE DRILL RATE	BEFORE SHOW 3.5 MIN/FT	DURING SHOW 3 MIN/FT
		AFTER SHOW 3.5 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 96 UNITS	DURING SHOW 256 UNITS
		AFTER SHOW 192 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

8400' SPL 100%SH

SH dkb,tnbn,frm-hd,occ brit,v dol,sl slty, DUL ORNG FLOR,FST STRMG CUT,

BRI MLKY POOL,MOD BRI YELBN RES RNG

GAS INFORMATION NO FLARES

	8394	8397	8400		
DEPTH (FEET)					
DRILL RATE (MIN/FT)	3.5	3	3.5		
TOTAL GAS (UNITS)	96	256	192		
C1 (PPM)	7300	18100	15100		
C2 (PPM)	709	1820	1372		
C3 (PPM)	615	1728	1280		
IC4 (PPM)	288	748	594		
NC4 (PPM)	230	720	500		
NET INCREASE (UNITS)		160	96		
RATIO (PK: BG)		2.7	2.0		

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

FR INCR BN/BLK OIL IN MUD

CORRELATION WITH CONTROL WELL(S)

DRLG W/WTR

MUD WEIGHT	IN/	8.4	OUT/	8.4
FLARE	BEFORE/	0	DURING/	0
			AFTER/	0

SHOW REPORT

DATE 1/3/91	WELL NAME LORANGER 6-22A2	SHOW REPORT # 15
FORMATION GREEN RIVER		DEPTH OF SHOW INTERVAL 8406'-8412'
AVERAGE DRILL RATE	BEFORE SHOW 4.5 MIN/FT	DURING SHOW 3.25 MIN/FT
	AFTER SHOW 4.5 MIN/FT	
AVERAGE OF TOTAL GAS	BEFORE SHOW 160 UNITS	DURING SHOW 456 UNITS
	AFTER SHOW 392 UNITS	

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

8410' SPL 90%SH, 10%SS

SH dkbn,gybn,tnbn,tnyelbn,frm-mod hd,v dol,slty-sl sdy ip,TR DUL ORNG FLOR,

IMMED FST STRMG CUT,STRNG MLKY POOL,MOD BRI YEL RES RNG

SS clr,tnbn,vfgr,sbrnd,wsrt,pcmt,v fri,DUL YEL FLOR,NO APP CUT/STN

GAS INFORMATION

NO FLARES

DEPTH (FEET)	8406	8409	8412		
DRILL RATE (MIN/FT)	4.5	3.25	4.5		
TOTAL GAS (UNITS)	160	456	392		
C1 (PPM)	14500	29376	26982		
C2 (PPM)	1210	2632	2464		
C3 (PPM)	1180	1600	1440		
IC4 (PPM)	557	704	660		
NC4 (PPM)	480	700	615		
NET INCREASE (UNITS)		296	232		
RATIO (PK: BG)		2.9	2.5		

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

FR INCR BLKBN OIL IN MUD

CORRELATION WITH CONTROL WELL(S)

DRLG W/ WTR					
MUD WEIGHT	IN/	8.4	OUT/	8.4	
FLARE	BEFORE/	0	DURING/	0	AFTER/ 0

SHOW REPORT

DATE 1/3/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 16
FORMATION GREEN RIVER		DEPTH OF SHOW INTERVAL 8444' - 8464'
AVERAGE DRILL RATE	BEFORE SHOW 4 MIN/FT	DURING SHOW 2.25 MIN/FT
		AFTER SHOW 3 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 260 UNITS	DURING SHOW 432 UNITS
		AFTER SHOW 288 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

8470' SPL 60%SH, 40%SS

SH 100%bn, dkbn, vdkbn, lt-mbn, tnb, sft-frm-hd, dol-v dol, slty-v slty, TR DUL

ORNG FLOR, FST STRMG CUT, MOD BRI MLKY POOL, SL BRI-DUL YELBN RES RNG

SS clrltbn, vf-occ fgr, sbrnd-sbang, wsrt, pcmt, v fri, pred unconsol, calc sil cmt,

OCC BRI YEL FLOR, MOD FST YEL STRMG CUT, BRI STRNG MLKY POOL, DUL YEL RES RNG

GAS INFORMATION

NO FLARES

DEPTH (FEET)	8444	8462	8484		
DRILL RATE (MIN/FT)	4	2.25	3		
TOTAL GAS (UNITS)	260	432	288		
C1 (PPM)	23980	37460	24800		
C2 (PPM)	1410	3150	2170		
C3 (PPM)	704	1240	1040		
IC4 (PPM)	390	253	242		
NC4 (PPM)	310	220	200		
NET INCREASE (UNITS)		172	28		
RATIO (PK: BG)		1.7	1.1		

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

SL TR INCR BLKBN OIL IN MUD

CORRELATION WITH CONTROL WELL(S)

DRLG W/WTR

MUD WEIGHT

IN/ **8.4** OUT/ **8.4**

FLARE

BEFORE/ **0** DURING/ **0** AFTER/ **0**

SHOW REPORT

DATE 1/3/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 17
FORMATION GREEN RIVER		DEPTH OF SHOW INTERVAL 8510-8514
AVERAGE DRILL RATE	BEFORE SHOW 2.5 MIN/FT	DURING SHOW 1.75 MIN/FT
		AFTER SHOW 3 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 320 UNITS	DURING SHOW 5440 UNITS
		AFTER SHOW 4160 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

8520 SPL, 90% SH, 10% SS

SH dkbn, tnbn, lt-mbn, sft-hd, dol-v dol, slty-sl sdy, tr dull orng flor, immed strng wh cut, strng mlky pool, dul-mod bri yel orng res rng

SS clr-ltbn, vf-occ fgr, sbang-sbrd, wsrt, pcmt, v fri, pred uncons, tr dul yel orng flor, fnt slo strng cut, fr mlky pool, sl bri-dul res rng

NO FLARE: DID NOT RUN THRU BUSTER

GAS INFORMATION

DEPTH (FEET)	8509	8512	8515		
DRILL RATE (MIN/FT)	2.5	1.75	3		
TOTAL GAS (UNITS)	320	5440	4160		
C1 (PPM)	26104	319488	245760		
C2 (PPM)	1410	33488	25760		
C3 (PPM)	820	23296	17920		
IC4 (PPM)	210	3744	2880		
NC4 (PPM)	160	10920	8400		
NET INCREASE (UNITS)		5120	3840		
RATIO (PK: BG)		17.0	13.0		

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

ABNT BLK OIL OVER SHAKER

CORRELATION WITH CONTROL WELL(S)

drlg / wtr

MUD WEIGHT	IN/	8.4	OUT/	
FLARE	BEFORE/	0	DURING/	0
			AFTER/	0

SHOW REPORT

DATE 1/5/92	WELL NAME LORANGER6-22A2	SHOW REPORT # 18
FORMATION GREEN RIVER	DEPTH OF SHOW INTERVAL 9058' - 9065'	
AVERAGE DRILL RATE	BEFORE SHOW 4 MIN/FT	DURING SHOW 3.25 MIN/FT
		AFTER SHOW 4 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 200 UNITS	DURING SHOW 580 UNITS
		AFTER SHOW 540 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

9070' SPL 20%SS, 80%SH

SH 80%bn, 20%ltgy SH lt-dkbn, tnb, ltt, gybn, sft-hd, dol-v dol, slty-sl sdy,

TR DUL ORNG FLOR, SLO WK STRMG CUT, FR MLKY POOL, DUL YELBN RES RNG

SS clr-trnsl-lttbn, vf-fgr, sbang-sbrnd, msrt, pcmt, unconsol, occ consol-sl cly fil cmt,

mod calc, SPTTY MOD BRI YEL FLOR, MOD FST STRMG YEL CUT, MOD MLKY POOL, DUL YEL RES

RNG, no stn vis, gd poro

GAS INFORMATION

NO FLARES

DEPTH (FEET)	9056	9062	9067			
DRILL RATE (MIN/FT)	4	3.25	4			
TOTAL GAS (UNITS)	200	580	540			
C1 (PPM)	11520	49980	46080			
C2 (PPM)	966	3690	3220			
C3 (PPM)	800	1960	1920			
IC4 (PPM)	220	784	660			
NC4 (PPM)	378	820	750			
NET INCREASE (UNITS)		380	340			
RATIO (PK: BG)		2.9	2.7			

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

TR INCR BLK OIL IN MUD

CORRELATION WITH CONTROL WELL(S)

DRLG W/ WTR

MUD WEIGHT	IN/	8.4	OUT/	no out
FLARE	BEFORE/	0	DURING/	0
			AFTER/	0

SHOW REPORT

DATE 1/7/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 19
FORMATION GREEN RIVER		DEPTH OF SHOW INTERVAL 9476' - 9520'
AVERAGE DRILL RATE	BEFORE SHOW 2.5 MIN/FT	DURING SHOW 1.5 MIN/FT
		AFTER SHOW 3 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 400 UNITS	DURING SHOW 680 UNITS
		AFTER SHOW 320 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

9500' SPL 100%SH

SH dkbn,mbn,hd,v dol,lmy ip,sl slty,DUL ORNG FLOR

FST STRMG CUT,STRNG MLKY POOL,DUL YELBN RES RNG

GAS INFORMATION

NO FLARES

	9450	9497	9504	9520		
DEPTH (FEET)						
DRILL RATE (MIN/FT)	2.5	1.5	3	2		
TOTAL GAS (UNITS)	400	680	600	320		
C1 (PPM)	30100	56004	49010	22400		
C2 (PPM)	2290	4980	4690	2100		
C3 (PPM)	1310	2781	2510	980		
IC4 (PPM)	120	687	601	200		
NC4 (PPM)	399	1140	920	380		
NET INCREASE (UNITS)		280	200	-80		
RATIO (PK: BG)		1.7	1.5	----		

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

FR INCR BLK OIL IN MUD

CORRELATION WITH CONTROL WELL(S)

DRLG W/WTR

MUD WEIGHT	IN/	8.4	OUT/	no out
FLARE	BEFORE/	0	DURING/	0
			AFTER/	0

SHOW REPORT

DATE 1/7/92	WELL NAME Ioranger 6-22A2	SHOW REPORT # 20
FORMATION GREEN RIVER		DEPTH OF SHOW INTERVAL 9548' - 9558'
AVERAGE DRILL RATE	BEFORE SHOW 2.5 MIN/FT	DURING SHOW 2 MIN/FT
		AFTER SHOW 2.5 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 360 UNITS	DURING SHOW 1760 UNITS
		AFTER SHOW 640 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

9560' SPL 100%SH, tr SS

SH 100%bn

SH dkbn, blkbn, gybn, frm-hd, v dol, sl slty, TR DUL ORNG FLOR,

FST STRMG CUT, STRNG MLKY POOL, DUL YELBN RES RNG

SS clr-trnsl, tngy, vf-f-occ mgr, sbrnd-sbang, w-msrt, pcmt, unconsol, NFSOC, gd poro

GAS INFORMATION

NO FLARES

	9546	9553	9560			
DEPTH (FEET)						
DRILL RATE (MIN/FT)	2.5	2	2.5			
TOTAL GAS (UNITS)	360	1760	640			
C1 (PPM)	28090	140800	44000			
C2 (PPM)	2310	11680	4240			
C3 (PPM)	1411	5400	2340			
IC4 (PPM)	230	880	440			
NC4 (PPM)	590	1280	900			
NET INCREASE (UNITS)		1400	280			
RATIO (PK: BG)		4.9	1.8			

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

MOD INCR BLK OIL IN MUD

CORRELATION WITH CONTROL WELL(S)

DRLG W/ WTR

MUD WEIGHT	IN/	8.4	OUT/	no out
FLARE	BEFORE/	0	DURING/	0
			AFTER/	0

SHOW REPORT

DATE 1/7/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 21
FORMATION GREEN RIVER		DEPTH OF SHOW INTERVAL 9655' - 9666'
AVERAGE DRILL RATE	BEFORE SHOW 2.5 MIN/FT	DURING SHOW NO BRK 2.5 MIN/FT
		AFTER SHOW 2.5 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 400 UNITS	DURING SHOW 760 UNITS
		AFTER SHOW 640 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

9660' SPL 100%SH

SH 70%bn, 30%dkgy

SH dkbn, dkgybn, dkgy, frm-mod hd, occ sft, dol, sl slty, SL TR DUL ORNG FLOR,

MOD FST STRMG CUT, STRNG MLKY POOL, dul yelbn res rng

GAS INFORMATION NO FLARES

DEPTH (FEET)	9654	9657	9662	9666		
DRILL RATE (MIN/FT)	2.5	2.5	2.5	2.5		
TOTAL GAS (UNITS)	400	760	720	640		
C1 (PPM)	25100	46080	43100	41760		
C2 (PPM)	2110	4720	4390	4080		
C3 (PPM)	1370	2880	2610	2250		
IC4 (PPM)	360	660	540	485		
NC4 (PPM)	590	1050	937	825		
NET INCREASE (UNITS)		360	320	240		
RATIO (PK: BG)		1.9	1.8	1.6		

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

sl incr blk oil in mud

CORRELATION WITH CONTROL WELL(S)

DRLG W/ WTR					
MUD WEIGHT	IN/	8.4	OUT/	no out	
FLARE	BEFORE/	0	DURING/	0	AFTER/ 0

SHOW REPORT

DATE 1/7/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 22
FORMATION GREEN RIVER		DEPTH OF SHOW INTERVAL 9688' - 9699'
AVERAGE DRILL RATE	BEFORE SHOW 2.5 MIN/FT	DURING SHOW NO BRK 2.5 MIN/FT
		AFTER SHOW 2.5 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 600 UNITS	DURING SHOW 960 UNITS
		AFTER SHOW 920 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

9700' SPL 100%SH

SH 80%bn, 20%dkgy

SH dkbn, dkgybn, dkgy, frm-hd, v dol, occ lmy ip, sl slty, V SL TR DUL ORNG FLOR,

FST STRMG CUT, STRNG MLKY POOL, DUL YELBN RES RNG

GAS INFORMATION

NO FLARES

DEPTH (FEET)	9686	9696	9699			
DRILL RATE (MIN/FT)	2.5	2.5	2.5			
TOTAL GAS (UNITS)	600	960	920			
C1 (PPM)	46100	69000	61920			
C2 (PPM)	3590	7760	6320			
C3 (PPM)	1940	3860	3420			
IC4 (PPM)	490	770	750			
NC4 (PPM)	769	1200	1140			
NET INCREASE (UNITS)		360	320			
RATIO (PK: BG)		1.6	1.5			

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

SL INCR BLK OIL IN MUD

CORRELATION WITH CONTROL WELL(S)

DRLG W/ WTR

MUD WEIGHT	IN/	8.4	OUT/	no out
FLARE	BEFORE/	0	DURING/	0
			AFTER/	0

SHOW REPORT

DATE 1/7/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 23
FORMATION GREEN RIVER		DEPTH OF SHOW INTERVAL 9820-25
AVERAGE DRILL RATE	BEFORE SHOW 2.25 MIN/FT	DURING SHOW 2 MIN/FT
	AFTER SHOW 2.5 MIN/FT	
AVERAGE OF TOTAL GAS	BEFORE SHOW 400 UNITS	DURING SHOW 800 UNITS
	AFTER SHOW 600 UNITS	

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

100% SH 50 BN, 30 DG, 20 LG,

SH lt-dk gy, gybn, bn, frm, blk-sbplty, dol, sl lmy, slty,

orngbn flor / fst strmg cut, bri yel pool / yel resd rng.

GAS INFORMATION

DEPTH (FEET)	9810	9822	9832			
DRILL RATE (MIN/FT)	2.25	2	2.5			
TOTAL GAS (UNITS)	400	800	560			
C1 (PPM)	25200	63000	48060			
C2 (PPM)	2100	5760	4160			
C3 (PPM)	1350	2880	2160			
IC4 (PPM)	340	660	440			
NC4 (PPM)	600	1200	900			
NET INCREASE (UNITS)		400	160			
RATIO (PK: BG)		2	1.4			

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

bn-blk oil over shaker

CORRELATION WITH CONTROL WELL(S) NO FLARE

drlg / wtr

MUD WEIGHT	IN/	8.4	OUT/	8.4
FLARE	BEFORE/	0	DURING/	0
	AFTER/	0		

SHOW REPORT

DATE 1/8/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 24
FORMATION GREEN RIVER		DEPTH OF SHOW INTERVAL 10010' - 10020'
AVERAGE DRILL RATE	BEFORE SHOW 2.5 MIN/FT	DURING SHOW NO BRK 2.5 MIN/FT
		AFTER SHOW 2.5 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 410 UNITS	DURING SHOW 760 UNITS
		AFTER SHOW 720 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

10020' SPL 100%SH

SH 80%bn, 20%ltgy

SH lt-mbn, gybn, ltgy, tr mgy, sft to frm, dol, sl lmy ip, sl slty, NO FLOR,

SLO WK FNT STRMG CUT, MOD STRNG MLKY POOL, DUL YEL-YELBN RES RNG

GAS INFORMATION

DEPTH (FEET)	10008	10013	10019			
DRILL RATE (MIN/FT)	2.5	2.5	2.5			
TOTAL GAS (UNITS)	410	760	720			
C1 (PPM)	28900	50400	49900			
C2 (PPM)	3210	5440	5300			
C3 (PPM)	1617	2880	2710			
IC4 (PPM)	310	584	501			
NC4 (PPM)	611	1050	992			
NET INCREASE (UNITS)		350	310			
RATIO (PK: BG)		1.9	1.8			

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

SL INCR BLK OIL IN MUD

CORRELATION WITH CONTROL WELL(S)

DRLG W/ WTR

MUD WEIGHT	IN/ 8.4	OUT/ NO OUT
FLARE	BEFORE/ 0	DURING/ 0 AFTER/ 0

SHOW REPORT

DATE 1/8/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 25
FORMATION GREEN RIVER		DEPTH OF SHOW INTERVAL 10102' -10109'
AVERAGE DRILL RATE	BEFORE SHOW 2.5 MIN/FT	DURING SHOW 2 MIN/FT
		AFTER SHOW 2.5 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 260 UNITS	DURING SHOW 804 UNITS
		AFTER SHOW 720 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

10110' SPL 100%SH

SH 70%bn, 20dkgy, 10ltgy

SH lt-dkbn, tnb, dkgy, lt-mgy, mod sft-frm-hd, dol-sl lmy ip,

sl slty, NO FLOR, FST STRMG CUT, STRNG MLKY POOL, DUL YEL RES RNG

GAS INFORMATION

DEPTH (FEET)	10101	10105	10110		
DRILL RATE (MIN/FT)	2.5	2	2.5		
TOTAL GAS (UNITS)	260	804	720		
C1 (PPM)	18004	54720	51840		
C2 (PPM)	1998	5920	5280		
C3 (PPM)	997	3240	2710		
IC4 (PPM)	194	605	462		
NC4 (PPM)	410	1194	900		
NET INCREASE (UNITS)		544	460		
RATIO (PK: BG)		3.1	2.8		

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

SL INCR BLK OIL IN MUD

CORRELATION WITH CONTROL WELL(S)

DRLG W/ WTR

MUD WEIGHT	IN/	8.4	OUT/	no out
FLARE	BEFORE/	0	DURING/	0
			AFTER/	0

SHOW REPORT

DATE 1/8/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 26
FORMATION GREEN RIVER		DEPTH OF SHOW INTERVAL 10157' - 10183'
AVERAGE DRILL RATE	BEFORE SHOW 2.5 MIN/FT	DURING SHOW 1.5 MIN/FT
		AFTER SHOW 3 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 560 UNITS	DURING SHOW 1560 UNITS
		AFTER SHOW 1120 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

10170' SPL 100%SH

SH 50%bn, 40ltgy, 10dkgy

SH lt-mdkbn, lt-mgy, dkgy, mod sft frm, occ hd, dol-mod calc, slty ip, NO FLOR,

SLO FNT STRMG CUT, FR MLKY POOL, DUL YEL RES RNG

GAS INFORMATION

DEPTH (FEET)	10156	10167	10180	10186		
DRILL RATE (MIN/FT)	2.5	1.5	2.0	3.5		
TOTAL GAS (UNITS)	560	1080	1560	1120		
C1 (PPM)	38800	67680	86400	69780		
C2 (PPM)	3840	10400	14400	10500		
C3 (PPM)	1700	5580	7920	6120		
IC4 (PPM)	275	935	1210	975		
NC4 (PPM)	600	1800	2780	2250		
NET INCREASE (UNITS)		521	1000	560		
RATIO (PK: BG)		1.9	2.8	2.0		

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

FR INCR BLK OIL IN MUD

CORRELATION WITH CONTROL WELL(S)

DRLG W/ WTR

MUD WEIGHT	IN/ 8.4	OUT/ no out
FLARE	BEFORE/ 0	DURING/ 0 AFTER/ 0

SHOW REPORT

DATE 1/8/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 27
FORMATION GREEN RIVER		DEPTH OF SHOW INTERVAL 10,360-10,378
AVERAGE DRILL RATE	BEFORE SHOW 1.5 MIN/FT	DURING SHOW 3 MIN/FT
	AFTER SHOW 1 MIN/FT	
AVERAGE OF TOTAL GAS	BEFORE SHOW 1800 UNITS	DURING SHOW 2300 UNITS
	AFTER SHOW 2300 UNITS	

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

10,370 SPL SH 100% dkgy 100%

SH gyblk, dkgy, gybn, frm, sbblky, slty, sooty, carb,

no flor / v slow strng cut, dull pool / dull resd rng

NO FLARE

GAS INFORMATION

DEPTH (FEET)	10360	10372	10378		
DRILL RATE (MIN/FT)	1.5	3	3		
TOTAL GAS (UNITS)	1800	2300	2300		
C1 (PPM)	100800	112320	112320		
C2 (PPM)	21760	24320	24320		
C3 (PPM)	10800	13680	13680		
IC4 (PPM)	1760	1540	1540		
NC4 (PPM)	3600	3600	3600		
NET INCREASE (UNITS)		500	500		
RATIO (PK: BG)		1.28	1.28		

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

REVERSE BREAK- BLK OIL OVER SHAKER

CORRELATION WITH CONTROL WELL(S)

drlg / wtr

MUD WEIGHT	IN/	8.4	OUT/	8.4
FLARE	BEFORE/	0	DURING/	0
			AFTER/	0

SHOW REPORT

DATE 1/8/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 28
FORMATION GREEN RIVER		DEPTH OF SHOW INTERVAL 10,410-10,428
AVERAGE DRILL RATE	BEFORE SHOW 2 MIN/FT	DURING SHOW 1.5 MIN/FT
		AFTER SHOW 1.75 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 2300 UNITS	DURING SHOW 2720 UNITS
		AFTER SHOW 2560 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

10420 SPL SH 100% DKGY 100%

**SH dkgy, gyblk, gybn, frm, sbblky-blky, slty, sooty, carb,
no flor / v slow strmg cut, dull pool / dull bn resd rng**

NO FLARE

GAS INFORMATION

DEPTH (FEET)	10390	10410	10430			
DRILL RATE (MIN/FT)	2	1.5	1.75			
TOTAL GAS (UNITS)	2300	2720	2560			
C1 (PPM)	112320	109440	136080			
C2 (PPM)	24320	25600	26240			
C3 (PPM)	13680	16560	14400			
IC4 (PPM)	1540	4400	2200			
NC4 (PPM)	3600	8400	4800			
NET INCREASE (UNITS)		420	260			
RATIO (PK: BG)		1.2	1.1			

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

BLK OIL OVER SHAKER

CORRELATION WITH CONTROL WELL(S)

DRLG / WTR

MUD WEIGHT	IN/ 8.4	OUT/ 8.4			
FLARE	BEFORE/ 0	DURING/ 0	AFTER/ 0		

SHOW REPORT

DATE 1/8/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 29
FORMATION GREEN RIVER		DEPTH OF SHOW INTERVAL 10490-10492
AVERAGE DRILL RATE	BEFORE SHOW 1.5 MIN/FT	DURING SHOW 2 MIN/FT
	AFTER SHOW 2 MIN/FT	
AVERAGE OF TOTAL GAS	BEFORE SHOW 2560 UNITS	DURING SHOW 7360 UNITS
	AFTER SHOW 2560 UNITS	

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

10490 SMPL, 100% SH, 70 DKGY, 30 BLK

SH skgy, blk, gybn, gyblk, sbblky-blky, frm, slty, sooty, v carb,

NFS slow strng cut / dull pool & dull bn resd rng

NO FLARE

GAS INFORMATION

	10480	10490	10498			
DEPTH (FEET)						
DRILL RATE (MIN/FT)	1.5	2	2			
TOTAL GAS (UNITS)	2560	7360	2560			
C1 (PPM)	136080	241920	148320			
C2 (PPM)	26240	76800	32000			
C3 (PPM)	14400	73440	15840			
IC4 (PPM)	2200	12320	2200			
NC4 (PPM)	4800	28800	5400			
NET INCREASE (UNITS)		4800	0			
RATIO (PK: BG)		2.88	0			

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

abnt oil over shaker

CORRELATION WITH CONTROL WELL(S)

drlg / wtr

MUD WEIGHT	IN/	8.4	OUT/	8.4
FLARE	BEFORE/	0	DURING/	0
	AFTER/	0		

SHOW REPORT

DATE 1/16/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 30
FORMATION GREEN RIVER		DEPTH OF SHOW INTERVAL 10736-10739
AVERAGE DRILL RATE	BEFORE SHOW 6.5 MIN/FT	DURING SHOW 5.5 MIN/FT
		AFTER SHOW 6.5 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 60 UNITS	DURING SHOW 480 UNITS
		AFTER SHOW 300 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

SMPL- 10740 SH 100%, tr SS

SH 100% dkgy, occ ltgy, sbpity-sbblky, frm-hd, slty-slsdy, mod calc, sooty, carb, no flor / slow strmg cut, dull pool / yel resd rng.

NO FLARE

GAS INFORMATION

DEPTH (FEET)	10735	10738	10740		
DRILL RATE (MIN/FT)	6.5	5.5	6.5		
TOTAL GAS (UNITS)	60	480	300		
C1 (PPM)	3080	31680	20900		
C2 (PPM)	432	4480	2480		
C3 (PPM)	234	1080	630		
IC4 (PPM)	88	88	88		
NC4 (PPM)	192	192	192		
NET INCREASE (UNITS)		420	240		
RATIO (PK: BG)		8	5		

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

TR BLK OIL IN MUD

CORRELATION WITH CONTROL WELL(S) **DRLG / MUD**

MUD WEIGHT	IN/ 8.9	OUT/ 8.8+		
FLARE	BEFORE/ 0	DURING/ 0	AFTER/ 0	

SHOW REPORT

DATE 1/16/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 31
FORMATION GREEN RIVER		DEPTH OF SHOW INTERVAL 10761' - 10765'
AVERAGE DRILL RATE	BEFORE SHOW 8 MIN/FT	DURING SHOW reverse brk 11 MIN/FT
		AFTER SHOW 9.5 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 320 UNITS	DURING SHOW 1200 UNITS
		AFTER SHOW 540 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

10770' SPL 80%SH, 20%SS

SH 80%dkgybn, 20%ltgy

SH dkgybn,dkgy,ltgy,sft to frm,dol ip,slty,NO FLOR,SLO STRMG CUT,

MOD MLKY POOL,MOD BRI YEL RES RNG

SS tn-ltbn,gybn,vfgr,ang,wsrt,wcmt,hd,tt,qtztic ip,sl calc,s&p ip,MOD BRI

YEL FLOR,NO STRMG CUT,SLO MOD MLKY POOL,MOD BRI YEL RES RNG,no poro,

sl lt tn stn

GAS INFORMATION NO FLARES

DEPTH (FEET)	10758	10763	10768			
DRILL RATE (MIN/FT)	8	11	9.5			
TOTAL GAS (UNITS)	320	1200	540			
C1 (PPM)	21100	73920	34210			
C2 (PPM)	2190	10240	4320			
C3 (PPM)	930	3240	1440			
IC4 (PPM)	187	870	220			
NC4 (PPM)	375	3040	416			
NET INCREASE (UNITS)		880	220			
RATIO (PK: BG)		3.8	1.7			

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

FR INCR BLK OIL IN MUD

DID NOT GO THRU BSTR

CORRELATION WITH CONTROL WELL(S)

MUD WEIGHT

IN/ **8.9+** OUT/ **8.7**

FLARE

BEFORE/ **0** DURING/ **0** AFTER/ **0**

SHOW REPORT

DATE 1/16/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 32
FORMATION GREEN RIVER		DEPTH OF SHOW INTERVAL 10772' - 10779'
AVERAGE DRILL RATE	BEFORE SHOW 9 MIN/FT	DURING SHOW 5.5 MIN/FT
	AFTER SHOW 9 MIN/FT	
AVERAGE OF TOTAL GAS	BEFORE SHOW 520 UNITS	DURING SHOW 1080 UNITS
	AFTER SHOW 640 UNITS	

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

10780' SPL 100%SH, tr SS

SH 80%dkgy, 10%ltgy, 10%bn

SH dkgy, mdkgybn, frm-hd, dol-lmy, slty, NO FLOR, V SLO FNT STRMG CUT,

DUL MLKY POOL, DUL FNT RES RNG

SH ltbm-gybn, sft, lmy, slty, NO FLOR, 0-V FNT SLO STRMG CUT, DUL MLKY POOL,

DUL FNT YEL RES RNG

GAS INFORMATION

NO FLARES

DEPTH (FEET)	10770	10777	10780			
DRILL RATE (MIN/FT)	9	5.5	9			
TOTAL GAS (UNITS)	520	1080	640			
C1 (PPM)	31500	58092	36080			
C2 (PPM)	4110	9216	5440			
C3 (PPM)	1210	3672	2250			
IC4 (PPM)	200	528	352			
NC4 (PPM)	398	1152	640			
NET INCREASE (UNITS)		560	120			
RATIO (PK: BG)		2.0	1.2			

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

SL INCR BLK OIL IN MUD

CORRELATION WITH CONTROL WELL(S)

MUD WEIGHT

IN/ **8.9** OUT/ **8.7+**

FLARE

BEFORE/ **0** DURING/ **0** AFTER/ **0**

SHOW REPORT

DATE 1/16/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 33
FORMATION GREEN RIVER	DEPTH OF SHOW INTERVAL 10828'-10836'	
AVERAGE DRILL RATE	BEFORE SHOW 6 MIN/FT	DURING SHOW 6.5 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 680 UNITS	DURING SHOW 920 UNITS
		AFTER SHOW 6 MIN/FT
		AFTER SHOW 800 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

10840' SPL 90%SH, 10%SS

SH 70&dkgy, 30%ltgy, tr bn

SH dkgy, dkgybn, mdkgy, ltgy, frm-mod hd, slty, mod-v calc, dol ip, NO FLOR, WK SLO STRMG CUT,
FR MLKY POOL, MOD BRI RES RNGSS tn-ltbn, gybn, vfgr, sbrnd-sbang, wsrt, mcmt, sl fri, s&p ip, mod-v calc, NO FLOR, SLO WK
STRMG CUT, MOD BRI MLKY POOL, BRI YEL RES RNG, no vis poro, tr lt tn stn

GAS INFORMATION

NO FLARES

DEPTH (FEET)	10826	10831	10836			
DRILL RATE (MIN/FT)	6	6.5	6			
TOTAL GAS (UNITS)	680	920	800			
C1 (PPM)	37510	49900	42680			
C2 (PPM)	4879	7360	5920			
C3 (PPM)	1990	2520	2340			
IC4 (PPM)	204	352	310			
NC4 (PPM)	590	800	672			
NET INCREASE (UNITS)		240	120			
RATIO (PK: BG)		1.4	1.2			

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

FR INCR BLK OIL IN MUD

DID NOT RUN THRU BSTR

CORRELATION WITH CONTROL WELL(S)

MUD WEIGHT

IN/ 9.0 OUT/ 8.8+

FLARE

BEFORE/ 0 DURING/ 0 AFTER/ 0

SHOW REPORT

DATE 1/16/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 34
FORMATION GREEN RIVER		DEPTH OF SHOW INTERVAL 10857-10860
AVERAGE DRILL RATE	BEFORE SHOW 6.5 MIN/FT	DURING SHOW reverse break 8.5 MIN/FT
		AFTER SHOW 6.5 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 520 UNITS	DURING SHOW 1680 UNITS
		AFTER SHOW 600 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

10860' SPL 70 SH, 30 SS

SH dkgy 70%, ltgy 30%, tr bn

SH dkgy, ltgy, qvbn, tn, sbplty-sbblky, frm-hd, mod calc, v slty-sl sdy, dol ip, no flor / slow strmg cut, dull mlky pool / yel resd rng

SS clr-trnsl, wh, ltgy, gybn, vf-fgr, wsrt, sbang-sbrd, wcmt-fri, sil cmt ip, calc cmt ip, sl arg cmt ip, occ carb frags, NFSOC

GAS INFORMATION NO FLARE

DEPTH (FEET)	10856	10858	10861			
DRILL RATE (MIN/FT)	6.5	8.5	6.5			
TOTAL GAS (UNITS)	520	1680	740			
C1 (PPM)	31100	103840	30360			
C2 (PPM)	4210	14400	4800			
C3 (PPM)	1120	5400	1530			
IC4 (PPM)	210	660	220			
NC4 (PPM)	494	1280	400			
NET INCREASE (UNITS)		1160	120			
RATIO (PK: BG)		3.2	1.2			

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

blk oil in mud

CORRELATION WITH CONTROL WELL(S)

MUD WEIGHT	IN/ 9.0	OUT/ 9.1
FLARE	BEFORE/ 0	DURING/ 0 AFTER/ 0

SHOW REPORT

DATE 1/16/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 35
FORMATION GREEN RIVER	DEPTH OF SHOW INTERVAL 10871-10873	
AVERAGE DRILL RATE	BEFORE SHOW 7.5 MIN/FT	DURING SHOW 5 MIN/FT
		AFTER SHOW 5 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 1000 UNITS	DURING SHOW 4800 UNITS
		AFTER SHOW 3680 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

10880 SPL 80 SH, 20 SS
SH dkgy 80%, ltgy 20%
SH dkgy, ltgy, gybn, sbplty-sbblky, frm-hd, mod calc, v slty-sl sdy,
dol ip, tr wh flor / slow strmg cut, dull mlky pool / yel resd rng
SS clr-trnsl, wh, ltgy, gybn, vf-fgr, wsrt, sbang-sbrd, wcmt-fri, sil cmt ip,
calc cmt ip, sl arg cmt ip, wh cly fl, NFSOC, occ carb frags

GAS INFORMATION

DEPTH (FEET)	10870	10872	10874			
DRILL RATE (MIN/FT)	7.5	5	6			
TOTAL GAS (UNITS)	1000	4800	4320			
C1 (PPM)	74580	221760	216480			
C2 (PPM)	9600	51200	40320			
C3 (PPM)	3960	27360	25200			
IC4 (PPM)	330	3520	3520			
NC4 (PPM)	640	5120	7680			
NET INCREASE (UNITS)		3800	3320			
RATIO (PK: BG)		4.8	3.8			

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

bn oil over shaker, no flare, working on gas buster, mud kicking at shaker

CORRELATION WITH CONTROL WELL(S)

MUD WEIGHT	IN/ 9.0	OUT/ 8.9
FLARE	BEFORE/ 0	DURING/ 0 AFTER/ 0

SHOW REPORT

DATE 1/17/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 36
FORMATION GREEN RIVER		DEPTH OF SHOW INTERVAL 10990' - 10995'
AVERAGE DRILL RATE	BEFORE SHOW 6 MIN/FT	DURING SHOW 2.5 MIN/FT
		AFTER SHOW 5 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 2000 UNITS	DURING SHOW 5440 UNITS
		AFTER SHOW 5400 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

11000' SPL 90%SS, 10%SH (10% CMT)

SH 70%bn, 30dkgy, tr ltgy, frm-mod hd, dol-lmy ip, slty-sl sdy, NO FLOR, SLO WK FNT

STRMG CUT, FR MLKY POOL, DUL YEL RES RNG

SS clr-trnsl-tn, vf-fgr, sbang-sbrnd, msrt, pcmt, unconsol, MOD BRI YEL FLOR,

V FNT SLO STRMG CUT, FR SLO MLKY POOL, DUL-SL BRI YEL RES RNG, gd poro,

tr lt tn stng

GAS INFORMATION

DEPTH (FEET)	10989	10993	10996			
DRILL RATE (MIN/FT)	6	2.5	5			
TOTAL GAS (UNITS)	2000	5440	5400			
C1 (PPM)	78990	284160	283900			
C2 (PPM)	21110	54720	54111			
C3 (PPM)	11987	27200	26980			
IC4 (PPM)	2040	4160	4091			
NC4 (PPM)	3790	9360	9247			
NET INCREASE (UNITS)		3440	3400			
RATIO (PK: BG)		2.7	2.7			

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

ABNT GBNB OIL/PRFN IN MUD AND AT SHKR

DRLG W/ BRINE WTR

CORRELATION WITH CONTROL WELL(S)

MUD WEIGHT	IN/ 9.0	OUT/ 8.9
FLARE	BEFORE/ 0	DURING/ 15' AFTER/ 15'

SHOW REPORT

DATE 1/17/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 37
FORMATION WASATCH OVER		DEPTH OF SHOW INTERVAL 11066' - 11073'
AVERAGE DRILL RATE	BEFORE SHOW 7.5 MIN/FT	DURING SHOW 3.5 MIN/FT
	AFTER SHOW 7.5 MIN/FT	
AVERAGE OF TOTAL GAS	BEFORE SHOW 3200 UNITS	DURING SHOW 6400 UNITS
	AFTER SHOW 6400 UNITS	

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

11070' SPL 90%SS, 10%SH, tr CMT

SH 50%bn, 40%dkgy, 10%rd frm-mod sft-hd, dol-lmy, slty-sl sdy, NO FLOR, V SLO STRMG CUT, FR MLKY POOL, MOD BRI YEL RES RNG

SS clr-trnsl, lttn-bn, f-vfgr, sbang-sbrnd, occ ang, msrt, pcmt, pred unconsol, MOD BRI YEL FLOR, V FNT SLO STRMG CUT, SLO DUL MLKY POOL, MOD BRI YEL RES RNG, tr lttn/bn stn, gd poro, tr crs gr qtzxls, clr-trnsl, ang

GAS INFORMATION

DEPTH (FEET)	11065	11069	11072	11076		
DRILL RATE (MIN/FT)	7.5	3.5	4.5	7.5		
TOTAL GAS (UNITS)	3200	6080	6400	6400		
C1 (PPM)	144009	326400	322560	323491		
C2 (PPM)	31689	70560	72004	72109		
C3 (PPM)	16801	38401	41607	41698		
IC4 (PPM)	2710	7280	7488	7501		
NC4 (PPM)	5780	13680	14400	14390		
NET INCREASE (UNITS)		2880	3200	3200		
RATIO (PK: BG)		1.9	2.0	2.0		

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

ABNT GBNB OIL/PRFN IN MUD & AT SHKR

BIT TORQ DURG BRK, PROB FRACG

CORRELATION WITH CONTROL WELL(S)

DRLG W/ BRINE WTR, NO CUT

MUD WEIGHT	IN/	9.1	OUT/	9.0
FLARE	BEFORE/	0	DURING/	16'
	AFTER/	16'		

SHOW REPORT

DATE 1/18/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 38
FORMATION WASATCH		DEPTH OF SHOW INTERVAL 11160'-11166'
AVERAGE DRILL RATE	BEFORE SHOW 8 MIN/FT	DURING SHOW reverse brk 10 MIN/FT
		AFTER SHOW 8 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 3900 UNITS	DURING SHOW 5400 UNITS
		AFTER SHOW 5400 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

11170' SPL 80%SS, 20%SH

SH 50%red, 30dkgy, 20ltgy, tr bn

SH reorng, dkg, ltgy-gywh-wh, sft-frm, sl-mod calc, lmy ip, v slty-sdy, NO FLOR, FNT DUL RES RNG

SS clr-trnsl-opq, ltgy, lttbn, f-mgr, sbrnd-sbang, m-psrt, pcmt, unconsol, SL MOD BRI YEL FLOR,

V SLO FNT STRMG CUT, FR MOD BRI MLKY POOL, MOD BRI YEL RES RNG, gd poro, no vis stng

GAS INFORMATION

DEPTH (FEET)	11158	11164	11167			
DRILL RATE (MIN/FT)	8	10	8			
TOTAL GAS (UNITS)	3900	5400	5400			
C1 (PPM)	199000	330240	350100			
C2 (PPM)	41101	69120	77100			
C3 (PPM)	18710	26400	35007			
IC4 (PPM)	3299	4160	4970			
NC4 (PPM)	7198	11520	15111			
NET INCREASE (UNITS)		1500	1500			
RATIO (PK: BG)		1.4	1.4			

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

SL/FR INCR GNBN OIL IN MUD

CORRELATION WITH CONTROL WELL(S)

DRLG W/BRINE WTR

MUD WEIGHT	IN/	9.4+	OUT/	9.3
FLARE	BEFORE/	0	DURING/	6'
			AFTER/	6'

SHOW REPORT

DATE 1/20/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 39
FORMATION WASATCH	DEPTH OF SHOW INTERVAL 11462'-11470'	
AVERAGE DRILL RATE	BEFORE SHOW 8 MIN/FT	DURING SHOW 7 MIN/FT
		AFTER SHOW 7.5 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 3000 UNITS	DURING SHOW 4000 UNITS
		AFTER SHOW 3500 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

11470' SPL 90%SS, 10%SH

SH 70%rd,30%ltgy,tr dkg

SH rdorng-vltrdorng,rdbn,ltgy-gywh-wh,sft,chlky,v lmy,occ grdg to SLTST,NO FLOR,

V FNT DUL YEL RES RNG

SS clr-trnsl,offwh-ltgy,vf-occ fgr,sbrnd-sbang,wsrt,m-pcmt,50%consol,cly fil calc

cmt,cln,TR DUL YEL FLOR,NO STRMG CUT,V SLO FNT MLKY POOL,DUL YEL RES RNG,

fr/gd poro,no vis stn

GAS INFORMATION

DEPTH (FEET)	11461	11466	11474		
DRILL RATE (MIN/FT)	8	7	7.5		
TOTAL GAS (UNITS)	3000	4000	3500		
C1 (PPM)	189900	291000	211200		
C2 (PPM)	23940	34101	28800		
C3 (PPM)	7500	9245	8320		
IC4 (PPM)	1792	3096	2496		
NC4 (PPM)	4190	6091	5184		
NET INCREASE (UNITS)		1000	200		
RATIO (PK: BG)		1.3	1.1		

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

SL INCR GNBN OIL IN MUD

DRLG W/ BRINE WTR

CORRELATION WITH CONTROL WELL(S)

MUD WEIGHT

IN/ 9.9 OUT/ 9.8+

FLARE

BEFORE/ 0 DURING/ 2 AFTER/ 0

SHOW REPORT

DATE 1/21/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 40
FORMATION WASATCH		DEPTH OF SHOW INTERVAL 11533' - 11539'
AVERAGE DRILL RATE	BEFORE SHOW 6 MIN/FT	DURING SHOW 5.5 MIN/FT
		AFTER SHOW 7 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 3200 UNITS	DURING SHOW 5750 UNITS
		AFTER SHOW 4160 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

11540' SPL 80%SS, 20%SH

SH 80%rd, 20ltgy, tr dkgy, tr gn

SH rdornng-rdbn-ltrdornng, ltgy-gywh-wh, sft to sl frm, chlky ip, mod calc-lmy ip,

NO FLOR, V FNT DUL YEL RES RNG

SS clr-trnsl-occ opq, vf-mgr, psrt, pcmt, pred unconsol, sbrnd-rnd-sbang, NO FLOR,

V FNT DUL MLKY POOL, DUL YEL RES RNG, no vis stn, gd poro

GAS INFORMATION

DEPTH (FEET)	11533	11535	11540			
DRILL RATE (MIN/FT)	6	5.5	7			
TOTAL GAS (UNITS)	3200	5750	4160			
C1 (PPM)	200101	311074	241920			
C2 (PPM)	26111	69120	41184			
C3 (PPM)	8190	24960	14900			
IC4 (PPM)	2610	3911	3410			
NC4 (PPM)	5311	12640	9080			
NET INCREASE (UNITS)		2500	960			
RATIO (PK: BG)		1.8	1.3			

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

MOD INCR OIL/PRFN IN MUD

DRLG W? BRINE WTR

CORRELATION WITH CONTROL WELL(S)

MUD WEIGHT	IN/ 9.9	OUT/ 9.8+
FLARE	BEFORE/ 0	DURING/ 8' AFTER/ 6'

SHOW REPORT

DATE 1/24/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 41
FORMATION WASATCH		DEPTH OF SHOW INTERVAL 11747'-11753'
AVERAGE DRILL RATE	BEFORE SHOW 8 MIN/FT	DURING SHOW reverse brk 11 MIN/FT
		AFTER SHOW 10.5 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 800 UNITS	DURING SHOW 3200 UNITS
		AFTER SHOW 2560 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

11750' SPL 30%SS, 70%SH

SH 70%rd,10ltgy,10dkgy,10gn sft-frm,mod calc,slty-sl sdy,rdornng grdg to SLTST

NFSOC

SS clrwh,vf-occ fgr,sbang-sbrnd,wsrt,mcmt,sl fri-fri-occ hd,consol,cly fil calc cmt,

calcitic ip,s&p ip,tr orng spks,SL TR DUL YEL FLOR,V FNT DUL RES RNG,tr poro,

no vis stn

GAS INFORMATION

DEPTH (FEET)	11746	11749	11756		
DRILL RATE (MIN/FT)	8	11	10.5		
TOTAL GAS (UNITS)	800	3200	2560		
C1 (PPM)	42240	165120	111972		
C2 (PPM)	8000	28800	19971		
C3 (PPM)	3840	13440	9845		
IC4 (PPM)	950	2400	1990		
NC4 (PPM)	1600	6400	5720		
NET INCREASE (UNITS)		2400	1760		
RATIO (PK: BG)		4.0	3.2		

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

FR INCR GBNB OIL/PRFN IN MUD

CORRELATION WITH CONTROL WELL(S)

MUD WEIGHT	IN/ 10.8	OUT/ 10.4
FLARE	BEFORE/ 0	DURING/ 0 AFTER/ 0

SHOW REPORT

DATE 1/24/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 42
FORMATION WASATCH		DEPTH OF SHOW INTERVAL 11772' - 11783'
AVERAGE DRILL RATE	BEFORE SHOW 11 MIN/FT	DURING SHOW 6.5 MIN/FT
	AFTER SHOW 9 MIN/FT	
AVERAGE OF TOTAL GAS	BEFORE SHOW 3200 UNITS	DURING SHOW 4800 UNITS
	AFTER SHOW 4870 UNITS	

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

11780' SPL 60%SS, 40%SH

SH 50%rd, 20ltgy, 10dkgy, 10gn, 10blk sft-frm-mod hd, slty-sl sdy, NFSOC

SS clr-trnsl, ltgy, f-mgr, sbrnd-sbang, msrt, pcmt, pred unconsol, abnt free wh cly,

SL TR DUL YEL FLOR, NO STRMG CUT, SLO DUL MLKY POOL, FNT DUL YEL RES RNG,

no vis stn, gd poro

GAS INFORMATION

DEPTH (FEET)	11768	11776	11784			
DRILL RATE (MIN/FT)	11	6.5	9			
TOTAL GAS (UNITS)	3200	4800	4870			
C1 (PPM)	120090	291840	297110			
C2 (PPM)	39100	56000	56480			
C3 (PPM)	18950	24960	25010			
IC4 (PPM)	3447	4200	4279			
NC4 (PPM)	7250	8800	8874			
NET INCREASE (UNITS)		1600	1670			
RATIO (PK: BG)		1.5	1.52			

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

SL INCR GNBN-BN OIL IN MUD

CORRELATION WITH CONTROL WELL(S)

MUD WEIGHT

IN/ **10.7** OUT/ **10.2**

FLARE

BEFORE/ **0** DURING/ **2'** AFTER/ **2'**

SHOW REPORT

DATE 1/25/92	WELL NAME LORanger 6-22A2	SHOW REPORT # 43
FORMATION WASATCH		DEPTH OF SHOW INTERVAL 11948'-11952'
AVERAGE DRILL RATE	BEFORE SHOW 22 MIN/FT	DURING SHOW 11.5 MIN/FT
		AFTER SHOW 22 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 4900 UNITS	DURING SHOW 5750 UNITS
		AFTER SHOW 5440 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

11950' SPL 80%SH, 20%SS

SH 40%rd, 40%gn, 10ltgy, 10dkgy

SH rdbn-rdorng, ltgn-plgn, mott rdgn, frm-sl sft, occ sl slty, sl calc-occ mod calc, sbblky, NFSOC

SS clrwh-ltttn, vf-fgr, sbang-sbrnd, wsrt, mcmt, sl fri-mod hd, pred consol, cly fil

calc cmt, NO FLOR, V FNT SLO DUL YEL RES RNG, 0-tr poro, no vis stn

GAS INFORMATION

DEPTH (FEET)	11946	11951	11953		
DRILL RATE (MIN/FT)	22	11.5	22		
TOTAL GAS (UNITS)	4900	5750	5440		
C1 (PPM)	315040	371010	340101		
C2 (PPM)	47090	65111	59987		
C3 (PPM)	19099	25972	24000		
IC4 (PPM)	2210	4799	4091		
NC4 (PPM)	5999	9504	9004		
NET INCREASE (UNITS)		850	540		
RATIO (PK: BG)		1.17	1.11		

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

SL INCR GBNB OIL/PRFN IN MUD

NO FLARE ? (WT cut back to 9.9+)

CORRELATION WITH CONTROL WELL(S)

MUD WEIGHT	IN/ 10.7+	OUT/ 9.9+
FLARE	BEFORE/ 0	DURING/ 0
		AFTER/ 0

SHOW REPORT

DATE 1/27/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 44
FORMATION WASATCH		DEPTH OF SHOW INTERVAL 12144'-12150'
AVERAGE DRILL RATE	BEFORE SHOW 11 MIN/FT	DURING SHOW 8.5 MIN/FT
		AFTER SHOW 10 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 2350 UNITS	DURING SHOW 5600 UNITS
		AFTER SHOW 4650 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

12150' SPL 70%SS, 30%SH

SH 40%ltgy,30%rd,30%gn

SH ltgy,gywh-wh,rdorngr-rdbn,ltgn-plgn,sft to frm,sl to occ mod calc,sbblky ip,sbwxy ip, NFSOC

SS clr-trnsl-ltgy,vf-mgr,sbrnd-sbang,msrt,pcmt,pred unconsol,rr glauc,sl cly fil cmt, mod calc,SPTY MOD BRI YEL FLOR,SLO STRMG CUT,MOD MLKY POOL,MOD BRI YEL RES RNG, no vis stn,gd poro,no xls

GAS INFORMATION

DEPTH (FEET)	11443	11447	11452			
DRILL RATE (MIN/FT)	11	8.5	10			
TOTAL GAS (UNITS)	2350	5600	4650			
C1 (PPM)	149200	309000	234010			
C2 (PPM)	19240	79980	57600			
C3 (PPM)	7298	29800	1920			
IC4 (PPM)	1100	4200	2710			
NC4 (PPM)	2310	7200	4900			
NET INCREASE (UNITS)		3250	2300			
RATIO (PK: BG)		2.38	1.97			

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

MOD INCR GNBN OIL IN MUD

MOD GAS ODOR AT SHKR

BIT TORQ THRU BRK,FT

CORRELATION WITH CONTROL WELL(S)

MUD WEIGHT	IN/ 10.8	OUT/ 9.9
FLARE	BEFORE/ 0	DURING/ 0 AFTER/ 0

SHOW REPORT

DATE 1/29/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 45
FORMATION WASATCH		DEPTH OF SHOW INTERVAL 12359' - 12362'
AVERAGE DRILL RATE	BEFORE SHOW 10.5 MIN/FT	DURING SHOW 9.5 MIN/FT
		AFTER SHOW 11.5 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 2500 UNITS	DURING SHOW 4810 UNITS
		AFTER SHOW 3520 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

12370' SPL 70%SS, 30%SH

SH 40%ltgy, 30gn, 20rd, 10dkgy

SH lt-mgy, gybn ip, lt-plgn, rdbn, mdkgy, frm-sl sft, sl calc, occ slty, NFSOC

SS clr-trnsl-froswh, vf-fgr, sbang-sbrnd, wsrt, pcmt, consol, cly fil calc cmt,

rr glauc, v fri-fri, v SPTY MOD BRI YEL FLOR, NO STRMG CUT, V FNT DUL YEL

RES RNG, fr/tr poro, no vis stn, tr free wh cly

GAS INFORMATION

DEPTH (FEET)	12359	12361	12364			
DRILL RATE (MIN/FT)	10.5	9.5	11.5			
TOTAL GAS (UNITS)	2500	4810	3520			
C1 (PPM)	100112	320000	204800			
C2 (PPM)	9510	43520	28160			
C3 (PPM)	6907	14400	8640			
IC4 (PPM)	910	2401	1240			
NC4 (PPM)	1124	4960	3200			
NET INCREASE (UNITS)		2310	1020			
RATIO (PK: BG)		1.92	1.40			

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

SL INCR GNBN OIL IN MUD

NO TORQ ON BIT

CORRELATION WITH CONTROL WELL(S)

MUD WEIGHT	IN/ 10.8	OUT/ 10.3+
FLARE	BEFORE/ 0	DURING/ 0 AFTER/ 0

SHOW REPORT

DATE 1/30/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 46
FORMATION WASATCH		DEPTH OF SHOW INTERVAL 12376' - 12384'
AVERAGE DRILL RATE	BEFORE SHOW 11 MIN/FT	DURING SHOW 9 MIN/FT
	AFTER SHOW 10.5 MIN/FT	
AVERAGE OF TOTAL GAS	BEFORE SHOW 3580 UNITS	DURING SHOW 5000 UNITS
	AFTER SHOW 3600 UNITS	

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

12390' SPL 70%SS, 30%SH

SH 60%ltgy, 30gn, 10rd, tr dky

SH lt-mgy, lt-plgn, mott rdgn, rdgn, sl sft to frm, slty-occ sbwxy ip, sl calc, NFSOC

SS clr-trnsl-ltgy, vf-fgr, rr mgr, sbang-sbrnd, w-msrt, pcmt, pred unconsol, V SPTTY

DUL YEL FLOR, NO STRMG CUT, V FNT DUL YEL RES RNG, gd poro, no vis stn, tr free

wh cly

GAS INFORMATION

DEPTH (FEET)	12376	12380	12384		
DRILL RATE (MIN/FT)	11	9	10.5		
TOTAL GAS (UNITS)	3580	5000	3600		
C1 (PPM)	219010	350100	241070		
C2 (PPM)	29980	45710	24107		
C3 (PPM)	8910	15980	9014		
IC4 (PPM)	1504	2641	1601		
NC4 (PPM)	3307	5210	3510		
NET INCREASE (UNITS)		1420	20		
RATIO (PK: BG)		1.39	1.005		

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

SL INCR GNBN OIL IN MUD

NO TORQ ON BIT

CORRELATION WITH CONTROL WELL(S)

MUD WEIGHT	IN/ 10.8	OUT/ 10.2
FLARE	BEFORE/ 0	DURING/ 0 AFTER/ 0

SHOW REPORT

DATE 1/30/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 47
FORMATION WASATCH		DEPTH OF SHOW INTERVAL 12389'-12396'
AVERAGE DRILL RATE	BEFORE SHOW 11 MIN/FT	DURING SHOW 10.5 MIN/FT
	AFTER SHOW 11.5 MIN/FT	
AVERAGE OF TOTAL GAS	BEFORE SHOW 3600 UNITS	DURING SHOW 7920 UNITS
	AFTER SHOW 7750 UNITS	

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

12400' SPL 60% SS, 40% SH

SH 50%ltgy,30gn,20rd,tr dkgy

SH lt-mgy,gybn ip,ltgn,gygn,mott rdgn,rdbn,frm-sl sft,sl-occ mod calc,slty, NFSOC

SS clr-ltgy,vf-fgr,sbang,wsrt,mcmt,sl fri-fri,pred consol,cly fil calc cmt, V SPTTY

MOD BRI YEL FLOR,NO STRMG CUT,FNT DUL YEL RES RNG,fr/tr poro,tr bn stn,mod free wh cly

GAS INFORMATION

DEPTH (FEET)	12387	12392	12397		
DRILL RATE (MIN/FT)	11	10.5	11.5		
TOTAL GAS (UNITS)	3600	7920	7750		
C1 (PPM)	243072	281600	289100		
C2 (PPM)	31629	84480	83211		
C3 (PPM)	9104	66240	64998		
IC4 (PPM)	1648	13441	13197		
NC4 (PPM)	3694	28847	27982		
NET INCREASE (UNITS)		4320	4150		
RATIO (PK: BG)		2.2	2.15		

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

MOD INCR GBNB OIL IN MUD

NO TORQ ON BIT

CORRELATION WITH CONTROL WELL(S)

MUD WEIGHT	IN/ 10.8	OUT/ 10.0
FLARE	BEFORE/ 0	DURING/ 20' AFTER/ 18'

SHOW REPORT

DATE 1/31/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 48
FORMATION WASATCH		DEPTH OF SHOW INTERVAL 12518'-12521'
AVERAGE DRILL RATE	BEFORE SHOW 13.5 MIN/FT	DURING SHOW 11 MIN/FT
		AFTER SHOW 12.5 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 4090 UNITS	DURING SHOW 5210 UNITS
		AFTER SHOW 4500 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

12520' SPL 70%SS, 30%SH

SH 80%ltgy,10dkgy,10gn, tr bn

SH lt-mgy, frm, mod calc-lmy ip, gn SH-sbwxy, sl sft to frm, bn SH-sft, dol ip, carb ip, NFSOC

SS clr-trnsl-ltgy, vf-fgr, sbang, wsrt, mcmt, consol, s&p, sl fri-fri, calcitic, rr glauc,

NO FLOR, NO STRMG CUT, FNT SLO DUL MLKY POOL, DUL YEL RES RNG, tr poro, tr blk stn,

mod free wh cly w/mod bri yel min flor, no cut

GAS INFORMATION

DEPTH (FEET)	12517	12519	12522		
DRILL RATE (MIN/FT)	13.5	11	12.5		
TOTAL GAS (UNITS)	4090	5210	4500		
C1 (PPM)	219107	255744	220800		
C2 (PPM)	40111	49766	42880		
C3 (PPM)	13174	20197	18720		
IC4 (PPM)	2510	4210	2640		
NC4 (PPM)	5119	6919	5760		
NET INCREASE (UNITS)		1120	410		
RATIO (PK: BG)		1.27	1.10		

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

MOD INCR GBNB OIL IN MUD

NO TORQ ON BIT

CORRELATION WITH CONTROL WELL(S)

MUD WEIGHT	IN/ 10.8+	OUT/ 10.6
FLARE	BEFORE/ 0	DURING/ 0 AFTER/ 0

SHOW REPORT

DATE 1/31/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 49
FORMATION WASATCH		DEPTH OF SHOW INTERVAL 12529' - 12534'
AVERAGE DRILL RATE	BEFORE SHOW 12.5 MIN/FT	DURING SHOW 5.5 MIN/FT
		AFTER SHOW 10 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 4700 UNITS	DURING SHOW 6420 UNITS
		AFTER SHOW 4800 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

12530' SPL 90%SS, 10%SH

SH 80%ltgy, 10dkgy, 10gn

SH lt-m-dkgy, gybn, ltgn, sft to frm, sl-mod calc, NFSOC

SS clr-trnsl-ltbn, vf-fgr, sbang, wsrt, pcmt, 50%consol, mod calc, SPTTY DUL YEL FLOR,

SLO YELWH STRMG CUT, BRI MLKY POOL, BRI YEL RES RNG, gd poro, abnt bn stng, tr

free wh cly

GAS INFORMATION

DEPTH (FEET)	12528	12531	12534			
DRILL RATE (MIN/FT)	12.5	5.5	10			
TOTAL GAS (UNITS)	4700	6420	4800			
C1 (PPM)	240009	329600	251110			
C2 (PPM)	48640	65280	48998			
C3 (PPM)	21601	24480	22174			
IC4 (PPM)	2880	3840	2910			
NC4 (PPM)	6720	8320	6850			
NET INCREASE (UNITS)		1720	100			
RATIO (PK: BG)		1.37	1.02			

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

MOD INCR GNB N OIL IN MUD

SL BIT TORQ, FT

CORRELATION WITH CONTROL WELL(S)

MUD WEIGHT	IN/ 10.8+	OUT/ 10.5+
FLARE	BEFORE/ 0	DURING/ 0 AFTER/ 0

SHOW REPORT

DATE 2/1/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 50
FORMATION WASATCH		DEPTH OF SHOW INTERVAL 12678' - 12680'
AVERAGE DRILL RATE	BEFORE SHOW 13 MIN/FT	DURING SHOW 9 MIN/FT
		AFTER SHOW 12.5 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 3500 UNITS	DURING SHOW 5760 UNITS
		AFTER SHOW 5120 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

12680' SPL 60%ss, 40%SH

SH 60%ltgy, 30dkgy, 10bn, tr gn lt-mgy, sft-frm, sl-occ mod calc, slty, NFSOC

dkgy SH-frm, splnty, n-sl calc, mica ip, NFSOC

ltbn SH- sft, mod calc, occ lmy, slty ip, NFSOC

SS clr-trnsl, vf-fgr, sbang, wsrt, pcmt, unconsol, NO FLOR, V FNT DUL YEL RES RNG,

no vis stn, gd poro, tr free wh cly

GAS INFORMATION

DEPTH (FEET)	12677	12679	12682		
DRILL RATE (MIN/FT)	13	9	12.5		
TOTAL GAS (UNITS)	3500	5760	5120		
C1 (PPM)	221004	310104	279800		
C2 (PPM)	35104	67998	59417		
C3 (PPM)	8690	35040	25980		
IC4 (PPM)	1110	6310	3978		
NC4 (PPM)	2187	7999	6998		
NET INCREASE (UNITS)		2260	1620		
RATIO (PK: BG)		1.64	1.46		

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

SL INCR GBNB OIL IN MUD

SL TORQ ON BIT - FT

CORRELATION WITH CONTROL WELL(S)

MUD WEIGHT IN/ **10.8+** OUT/ **10.3+**

FLARE BEFORE/ **0** DURING/ **0** AFTER/ **0**

SHOW REPORT

DATE 2/3/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 51
FORMATION WASATCH		DEPTH OF SHOW INTERVAL 12858' - 12873'
AVERAGE DRILL RATE	BEFORE SHOW 10.5 MIN/FT	DURING SHOW 8.5 MIN/FT
		AFTER SHOW 10 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 3920 UNITS	DURING SHOW 4505 UNITS
		AFTER SHOW 3850 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

12880' SPL 100%SH

SH 40%ltgy, 40%dkgy, 10bn, 10gn

SH lt-m-dlgy, gygn, gybn, ltbm, ltgn, sft to frm, sl-mod calc, occ lmy ip, NFSOC, tr pyr

GAS INFORMATION

DEPTH (FEET)	12857	12870	12875		
DRILL RATE (MIN/FT)	10.5	8.5	10		
TOTAL GAS (UNITS)	3920	4505	3850		
C1 (PPM)	221000	284160	184320		
C2 (PPM)	45987	57600	33100		
C3 (PPM)	21107	32101	11980		
IC4 (PPM)	3210	3998	1910		
NC4 (PPM)	4870	6911	4498		
NET INCREASE (UNITS)		585	----		
RATIO (PK: BG)		1.14	----		

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

SL-MOD INCR GBNB OIL/PRFN IN MUD

SL BIT TORQ-FT

CORRELATION WITH CONTROL WELL(S)

MUD WEIGHT	IN/	10.8	OUT/	10.5+
FLARE	BEFORE/	0	DURING/	0
			AFTER/	0

SHOW REPORT

DATE 2/3/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 52
FORMATION WASATCH		DEPTH OF SHOW INTERVAL 12885' -12887'
AVERAGE DRILL RATE	BEFORE SHOW 11 MIN/FT	DURING SHOW no brk 11 MIN/FT
		AFTER SHOW 12 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 3580 UNITS	DURING SHOW 5120 UNITS
		AFTER SHOW 4610 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

12890' SPL 100% SH

SH 80%gn, 10dkgy, 10ltgy, tr bn

SH 1tgn-gygn, 1t-mdkgy, frm-sl sft, sbwxy ip, mod calc-occ lmy ip, occ slty ip, NFSOC, tr pyr

GAS INFORMATION

DEPTH (FEET)	12884	12886	12888		
DRILL RATE (MIN/FT)	11	11	12		
TOTAL GAS (UNITS)	3580	5120	4610		
C1 (PPM)	161980	307200	289041		
C2 (PPM)	30004	72111	61107		
C3 (PPM)	9897	34560	27234		
IC4 (PPM)	1511	4480	2978		
NC4 (PPM)	3998	8640	6984		
NET INCREASE (UNITS)		1540	1030		
RATIO (PK: BG)		1.43	1.28		

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

ABNT GBNB OIL/PRFN IN MUD

BIT TORQ-FT

CORRELATION WITH CONTROL WELL(S)

MUD WEIGHT	IN/ 10.8	OUT/ 10.5
FLARE	BEFORE/ 0	DURING/ 0 AFTER/ 0

SHOW REPORT

DATE 2/4/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 53
FORMATION WASATCH		DEPTH OF SHOW INTERVAL 12928'-12934'
AVERAGE DRILL RATE	BEFORE SHOW 11 MIN/FT	DURING SHOW 4 MIN/FT
		AFTER SHOW 10 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 4900 UNITS	DURING SHOW 7971 UNITS
		AFTER SHOW 7360 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

12940' SPL 80%SH, 20%SS

SH 50%ltgy, 40%gn, 10dkgy, tr bn

SH lt-mgy, gybn, gygn, ltgn, dkgy-dkgybn, sft to frm, n-mod calc, lmy ip, sl slty-sbwxy ip, NFSOC

SS clr-ltgy, vf-fgr, sbang-ang, wsrt, mcmt, sl fri, consol, abnt cly fil cmt, calc, rr glauc, abnt lrg dk carb incl, V SPTTY DUL YEL FLOR, V SLO WK FNT STRMG CUT, SLO MLKY POOL, MOD BRI YEL RES RNG, mod bn stn, tr/fr poro, tr pyr, mod free wh cly

GAS INFORMATION

DEPTH (FEET)	12926	12931	12936		
DRILL RATE (MIN/FT)	11	4	10		
TOTAL GAS (UNITS)	4900	7971	7360		
C1 (PPM)	325180	299520	285180		
C2 (PPM)	69871	102400	99204		
C3 (PPM)	25107	61440	57678		
IC4 (PPM)	2997	8400	9110		
NC4 (PPM)	5979	18720	20160		
NET INCREASE (UNITS)		3071	2460		
RATIO (PK: BG)		1.62	1.50		

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

ABNT GN-GNBN OIL/PRFN IN MUD

SL BIT TORQ-FT

CORRELATION WITH CONTROL WELL(S)

MUD WEIGHT

IN/ **10.8** OUT/ **10.5+**

FLARE

BEFORE/ **0** DURING/ **25'** AFTER/ **15-20'**

SHOW REPORT

DATE 2/5/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 54
FORMATION WASATCH		DEPTH OF SHOW INTERVAL 13101'-13112'
AVERAGE DRILL RATE	BEFORE SHOW 10.5 MIN/FT	DURING SHOW no brk 10.5 MIN/FT
	AFTER SHOW 10.5 MIN/FT	
AVERAGE OF TOTAL GAS	BEFORE SHOW 6310 UNITS	DURING SHOW 7000 UNITS
	AFTER SHOW 6500 UNITS	

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

13110' SPL 70%SH, 30%LS

SH 70%ltgy, 20dkgy, 10bn

SH ltgy, frm, v lmy, occ slty, NFSOC

LS ltgy, buftngy, micxln, mod sft to frm, arg, NO FLOR, V FNT DUL YEL RES RNG,

no vis stn, no app poro

GAS INFORMATION

DEPTH (FEET)	13100	13107	13114			
DRILL RATE (MIN/FT)	10.5	10.5	10.5			
TOTAL GAS (UNITS)	6310	7000	6500			
C1 (PPM)	231000	271104	259801			
C2 (PPM)	68107	72110	70414			
C3 (PPM)	46100	51190	47998			
IC4 (PPM)	7891	8097	7954			
NC4 (PPM)	18140	21111	19980			
NET INCREASE (UNITS)		690	190			
RATIO (PK: BG)		1.11	1.03			

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

ABNT LT-M GN OIL/PRFN IN MUD

NO APP BIT TORQ

CORRELATION WITH CONTROL WELL(S)

MUD WEIGHT	IN/ 11.1	OUT/ 10.8
FLARE	BEFORE/ 8'	DURING/ 10' AFTER/ 8'

SHOW REPORT

DATE 2/5/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 55
FORMATION WASATCH		DEPTH OF SHOW INTERVAL 13164'-13170'
AVERAGE DRILL RATE	BEFORE SHOW 10.5 MIN/FT	DURING SHOW no brk 10.5 MIN/FT
		AFTER SHOW 10.5 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 4800 UNITS	DURING SHOW 5950 UNITS
		AFTER SHOW 5250 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

13170' SPL 70%SH, 30%SS

SH 40%bn, 30ltgy, 30dkgy

SH lt-mbn, lt-dkgy, sft to frm, dol-lmy, slty, NPSOC

SS clr-ltgy, vf-fgr, sbrnd-sbang, wsrt, mcmt, consol, sl fri-fri, occ tt, abnt cly filg, lmy, dk lrg carb incl, NO FLOR, V FNT DUL YEL RES RNG, no vis stn, tr-0 poro

GAS INFORMATION

DEPTH (FEET)	13164	13167	13170			
DRILL RATE (MIN/FT)	10.5	10.5	10.5			
TOTAL GAS (UNITS)	4800	5950	5250			
C1 (PPM)	181104	261120	241920			
C2 (PPM)	54971	66240	60480			
C3 (PPM)	29742	35200	32004			
IC4 (PPM)	7091	7981	7350			
NC4 (PPM)	10014	15980	12190			
NET INCREASE (UNITS)		1150	450			
RATIO (PK: BG)		1.19	1.09			

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

ABNT LT-M GN OIL/PRFN IN MUD

NO APP BIT TORQ

CORRELATION WITH CONTROL WELL(S)

MUD WEIGHT

IN/ **11.4** OUT/ **11.0**

FLARE

BEFORE/ **5'** DURING/ **7'** AFTER/ **6'**

SHOW REPORT

DATE 2/6/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 56
FORMATION WASATCH		DEPTH OF SHOW INTERVAL 13244' - 13248'
AVERAGE DRILL RATE	BEFORE SHOW 14 MIN/FT	DURING SHOW 10.5 MIN/FT
	AFTER SHOW 14 MIN/FT	
AVERAGE OF TOTAL GAS	BEFORE SHOW 5980 UNITS	DURING SHOW 6510 UNITS
	AFTER SHOW 5600 UNITS	

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

13250' SPL 90%SH, 10%SS
SH 70%ltgy, 20dkgy, 10bn, sft to frm, dol-lmy, sl slty-mod slty, NFSOC
SS clr-ltgy, vf-fgr, sbang-sbrnd, wsrt, mcmt, consol, sl fri-fri, cly fil cmt, v calc,
dk carb incl, NFSOC, no vis stn, tr poro, mod free wh cly

GAS INFORMATION

DEPTH (FEET)	13242	13246	13249		
DRILL RATE (MIN/FT)	14	10.5	14		
TOTAL GAS (UNITS)	5980	6510	5600		
C1 (PPM)	311004	337940	278501		
C2 (PPM)	75010	79972	63984		
C3 (PPM)	40107	43219	36784		
IC4 (PPM)	8001	8247	6503		
NC4 (PPM)	19181	20782	12499		
NET INCREASE (UNITS)		530	---		
RATIO (PK: BG)		1.08	---		

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

SL INCR LT-M GN OIL/PRFN IN MUD
NO APP BIT TORQ

CORRELATION WITH CONTROL WELL(S)

MUD WEIGHT	IN/ 11.6	OUT/ 11.1
FLARE	BEFORE/ 9'	DURING/ 10' AFTER/ 8'

SHOW REPORT

DATE 2/6/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 57
FORMATION WASATCH		DEPTH OF SHOW INTERVAL 13260' - 13278'
AVERAGE DRILL RATE	BEFORE SHOW 13.5 MIN/FT	DURING SHOW 7 MIN/FT
		AFTER SHOW 15 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 5250 UNITS	DURING SHOW 6050 UNITS
		AFTER SHOW 5300 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

13270' SPL 70%SS, 30%SH

SH 80%ltgy, 10dkgy, 10bn sft to frm, mod calc to lmy, slty-mod slty, NFSOC,

ltgy occ grdg to v arg LS

SS clr-ltgy, vf-fgr, sbang-sbrnd, wsrt, mcmt, fri, consol, abnt cly filg, lmy, lrg dk

carb incl, NO FLOR, V FNT DUL YEL RES RNG, tr/fr poro, no vis stn, mod free wh cly

GAS INFORMATION

DEPTH (FEET)	13259	13264	13268	13270	13276	13280
DRILL RATE (MIN/FT)	13.5	7	11	12	8	15
TOTAL GAS (UNITS)	5250	6050	5300	4200	5310	4800
C1 (PPM)	239971	281475	250711	165120	228880	199680
C2 (PPM)	68710	72914	69978	46080	68480	57024
C3 (PPM)	33111	39410	36141	28800	35200	33600
IC4 (PPM)	6547	7310	6911	4160	6610	6240
NC4 (PPM)	12941	17944	14781	9111	13410	11104
NET INCREASE (UNITS)		800	50	---	1110	600
RATIO (PK: BG)		1.15	1.01	---	1.26	1.14

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

SL INCR LT-M GN OIL/PRFN IN MUD

NO APP BIT TORQ

CORRELATION WITH CONTROL WELL(S)

MUD WEIGHT	IN/ 11.6	OUT/ 11.2			
FLARE	BEFORE/ 4'	DURING/ 5'	AFTER/ 4'		

SHOW REPORT

DATE	WELL NAME	SHOW REPORT #
2/7/92	LORANGER 6-22A2	58
FORMATION		DEPTH OF SHOW INTERVAL
WASATCH		13323' - 13332'
AVERAGE DRILL RATE	BEFORE SHOW	DURING SHOW
	10 MIN/FT	5.5 MIN/FT
		AFTER SHOW
		10 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW	DURING SHOW
	4900 UNITS	5910 UNITS
		AFTER SHOW
		5400 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

13330' SPL 80%SS, 20%SH
 SH 80%ltgy, 10dkgy, 10bn, tr gn
 SH lt-mgy-dkgy, gybn ip, mod sft to frm, lmy to v lmy, sl slty, NFSOC
 SS clr-ltgy, vf-fgr, sbang-sbrnd, wsrt, mcm, consol, fri, lrg dk carb incl, rr glauc,
 lmy, cly fil cmt, NO FLOR, V FNT DUL YEL RES RNG, tr poro, tr ltbn stn, mod free
 wh cly, tr pyr

GAS INFORMATION

DEPTH (FEET)	13322	13328	13333			
DRILL RATE (MIN/FT)	10	5.5	10			
TOTAL GAS (UNITS)	4900	5910	5400			
C1 (PPM)	218700	276480	236560			
C2 (PPM)	57610	72110	63361			
C3 (PPM)	33601	38407	36164			
IC4 (PPM)	4160	6244	5910			
NC4 (PPM)	10111	16671	14720			
NET INCREASE (UNITS)		1010	500			
RATIO (PK: BG)		1.21	1.10			

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

SL-MOD INCR LTGN OIL/PRFN IN MUD
 NO BIT TORQ

CORRELATION WITH CONTROL WELL(S)

MUD WEIGHT	IN/ 11.7	OUT/ 11.3
FLARE	BEFORE/ 5'	DURING/ 9' AFTER/ 6'

SHOW REPORT

DATE 2/9/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 59
FORMATION WASATCH		DEPTH OF SHOW INTERVAL 13556' - 13571'
AVERAGE DRILL RATE	BEFORE SHOW 12 MIN/FT	DURING SHOW 5.5 MIN/FT
		AFTER SHOW 10 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 5250 UNITS	DURING SHOW 6104 UNITS
		AFTER SHOW 5645 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

13570' SPL 80%SS, 20%SH, tr LS

SH 70%ltgy, 20%dkgy, 10%bn

SH lt-vlt gy, m-dkgy, lt-mbn, sft to frm, dol-lmy, sl slty to occ grdg to SLTST, NFSOC

SS clr, lt-m gy, vf-fgr, sbang-ang, wsrt, mcmt, consol, fri-mod fri, calcitic, mica ip,

dk carb incl, rr glauc, abnt cly filg, NO FLOR, V SLO FNT MLKY POOL, DUL FNT YEL

RES RNG, ABNT BLK D.O.S., abnt free cly, tr poro

GAS INFORMATION

DEPTH (FEET)	13556	13569	13572			
DRILL RATE (MIN/FT)	12	5.5	10			
TOTAL GAS (UNITS)	5250	6104	5645			
C1 (PPM)	239997	287114	261110			
C2 (PPM)	69742	85210	79480			
C3 (PPM)	39978	58081	53110			
IC4 (PPM)	4998	7403	6714			
NC4 (PPM)	9996	20112	17103			
NET INCREASE (UNITS)		854	395			
RATIO (PK: BG)		1.16	1.07			

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

SL INCR LTGN OIL/PRFN IN MUD

MOD BIT TORQ DRG BRK

CORRELATION WITH CONTROL WELL(S)

MUD WEIGHT

IN/ **11.7** OUT/ **11.4**

FLARE

BEFORE/ **5'** DURING/ **8'** AFTER/ **6'**

SHOW REPORT

DATE 2/11/92	WELL NAME LORANGER 6-22A2	SHOW REPORT # 60
FORMATION WASATCH		DEPTH OF SHOW INTERVAL 13857' - 13860'
AVERAGE DRILL RATE	BEFORE SHOW 11.5 MIN/FT	DURING SHOW 6.5 MIN/FT
		AFTER SHOW 11 MIN/FT
AVERAGE OF TOTAL GAS	BEFORE SHOW 5120 UNITS	DURING SHOW 5750 UNITS
		AFTER SHOW 5625 UNITS

SAMPLE DESCRIPTION (lithology, type and degree of porosity, evidence of fracturing, fluorescence, cuts)

13860' SPL 60%SS, 40%SH

SH 90%ltgy, 10%dkgy, tr bn

SH ltgy-gybn, frm-mod hd, sl-occ mod calc, sbwxy-occ slty, NFSOC

SS clr-ltgy, vf-f-occ mgr, sbang-ang, msrt, mcmt, consol, fri, calcitic, lrg dk carb incl, glauc, mod cly fil cmt, V SPTTY DUL YEL FLOR, V SL FNT SLO STRMG CUT, SLO FNT MLKY POOL, FNT DUL YEL RES RNG, sl tr ltbn stn, tr/fr poro, tr free cly

GAS INFORMATION

DEPTH (FEET)	13856	13859	13862		
DRILL RATE (MIN/FT)	11.5	6.5	11		
TOTAL GAS (UNITS)	5120	5750	5625		
C1 (PPM)	184320	261120	259811		
C2 (PPM)	69120	86400	81110		
C3 (PPM)	35200	41604	39972		
IC4 (PPM)	4110	6280	6040		
NC4 (PPM)	8205	12160	11510		
NET INCREASE (UNITS)		630	505		
RATIO (PK: BG)		1.12	1.09		

OTHER COMMENTS (e.g... torquing of bit, spikey drill time or gas, changes in mud system, oil on pits)

SL INCR LTGN OIL? PRFN IN MUD

NO BIT TORQ

CORRELATION WITH CONTROL WELL(S)

MUD WEIGHT

IN/ **11.9** OUT/ **11.3**

FLARE

BEFORE/ **3'** DURING/ **5'** AFTER/ **4'**

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

5. LEASE DESIGNATION AND SERIAL NO. Fee
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME Loranger
9. WELL NO. 6-22A2
10. FIELD AND POOL, OR WILDCAT Blubell-Wasatch
11. SEC., T., S., M., OR BLK. AND SURVEY OR AREA Sec. 22, T1S, R2W
12. COUNTY OR PARISH Duchesne
13. STATE Utah

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
Pennzoil Exploration and Production Company

3. ADDRESS OF OPERATOR
P.O. Box 290; Neola, Utah 84053

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
1082' FSL and 1119' FWL (SW SW)

14. PERMIT NO.
API 43 013 31334

15. ELEVATIONS (Show whether OF, RT, OR, etc.)
5668' (GL)

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

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

--- SEE ATTACHED "REPORT OF DRILLING OPERATION" COMPLETE ---

TIGHT HOLE

RECEIVED

FEB 26 1992

DIVISION OF
OIL GAS & MINING

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

SIGNED DR Lamberson TITLE Petroleum Engineer DATE 2/24/92

(This space for Federal or State office use)

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

LORANGER 6-22A2

MONTHLY REPORT OF DRILLING OPERATIONS: COMPLETE

FOR PERIOD 12/15/91 THRU 2/16/92

- Set and cemented 16" conductor pipe at 60'./
- Spud well with Forwest Rig # 5 6:30 PM, 12/15/91.
- Drilled 13 1/5" hole to 3520'. Encountered water flows at 700', 1571', and 2150'. All three flows could be the same one from 700'.
- Ran and set 10 3/4" 40.5# surface casing to 3519'. Cemented with 617 sx. DS Hi-Lift cement (11 ppg., 3.75 yld.) followed by 200 sx. class 'G' cement (15.8 ppg., 1.15 yld.). Good circ. throughout job. Circ. 127 bbl. cement to surface. Performed 1" top from job from 140' with 100 sx. class 'G'.
- Pressure tested BOP rams and choke manifold to 5000 psi. Tested Hydril BOP to 2500 psi. Tested 10 3/4" casing to 2000 psi. All OK.
- Drilled new formation to 3535'. Performed formation leak-off test to 12.5 ppg EMW. No leak off.
- Drilled 9 7/8" hole to 10,700'. Final mud wt.: 8.8 ppg. Logged with Schlumberger Phasor Induction Log and Digital Sonic Log.
- Ran and set 7" 23# casing to 10,700' with DV tool at 8475'. Cemented from 10,700' to 8475' with 393 sx. 50/50 Pozmix (14.1 ppg., 1.27 yld.) followed by 200 sx. class 'G' cement (15.8 ppg., 1.15 yld.). Cemented above DV tool 8475' to surface with 770 sx. Hi-Lift cement (11.0 ppg., 3.75 yld.), followed by 654 sx. 50/50 Pozmix (14.1 ppg., 1.27 yld.), followed by 250 sx. class 'G' cement (15.8 ppg., 1.15 yld.) Circ. 2 sx. cement to surf.
- Pressure tested 7" casing to 2000 psi.
- Drilled new formation to 10,705'. Performed formation leak-off test to 1400 psi. Formation leaked off to 580 psi. (9.7 ppg. EMW).
- Drilled 6 1/4" hole 10,700'- 13,950' with final mud wt.12.0 ppg.
- Logged with Schlumberger Phasor Induction Log, Digital Sonic, and Caliper Log 13,931'-10,690'. Casing Inspection Log 10,670'-50'.
- Ran and set 5" 18# P-110 liner 10,392'-13,950'. Cemented with 375 sx. DS Salt-Bond "G" (16.2 ppg., 1.57 yld.) Good returns thru job. Bumper plug 2:00 PM 2/14/92.
- Released Forwest Rig#5 9:00 PM 2/16/92.

RECEIVED

FEB 26 1992

DIVISION OF
OIL GAS & MINING

CONFIDENTIAL
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

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

5. LEASE DESIGNATION AND SERIAL NO.

Fee Land

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Loranger

8. FARM OR LEASE NAME

Loranger

9. WELL NO.

6-22A2

10. FIELD AND POOL, OR WILDCAT

Bluebell-Wasatch

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

Section 22, T1S-R2W

12. COUNTY OR PARISH

13. STATE

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY OTHER

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RENVR. OTHER

2. NAME OF OPERATOR

Pennzoil Exploration and Production Company

3. ADDRESS OF OPERATOR

P.O. Box 2967, Houston, Texas 77252-2967

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface 1082' FSL and 1119' FWL (SWSW)

At top prod. interval reported below

At total depth

14. PERMIT NO. DATE ISSUED

43-013-31334

JUL 27 1992

DIVISION OF OIL GAS & MINING

RECEIVED

15. DATE SPUDDED 12/15/91 16. DATE T.D. REACHED 2/12/92 17. DATE COMPL. (Ready to prod.) 4/13/92 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 5689KB, 5688DF, 5666GL 19. ELEV. CASINGHEAD 5666'

20. TOTAL DEPTH, MD & TVD 13,950' 21. PLUG, BACK T.D., MD & TVD 13,925' 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 12,046' thru 13,850' 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN 8-10-92 DIL, Sonic, Caliper MUD LOG, SIVAL LOG, BOREHOLE PROFILE LOG 27. WAS WELL CORED No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
10.75"	40.5#	3,519'	13.5"	917 SXS	
7"	23#	10,700'	9.875"	2358 SXS	

29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
5"	10,392'	13,950'	375 SXS				

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
See Attached		DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
		See Attached	

33.* PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
4/6/92		Flowing				Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
4/13/92	24	19/64"	→	852	0	0	-
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
1500 psi	0	→	852	0	0	42	

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

35. LIST OF ATTACHMENTS Completion Reports

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED [Signature] TITLE Petroleum Engineer DATE 7/20/92

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

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

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP TRUE VERT. DEPTH
Green River GR-MB GR-H W-TFL	6297' 8494' 9714' 13692'					

Loranger #6-22A2

DEV - Duchesne County, Utah - Bluebell - Section 22, T1S, R2W - PZL
W.I. 0.49198% - TD 13,950' - AFE #07016193 - AFE Cost \$1,196,536

COMPLETION

3/31/92

CTD \$1,433,811

FIRST COMPLETION REPORT

MI & RU pulling unit. Unloaded racks and tbg. WIH with 4 1/8" bit, 10 3 1/8" drill collars and 309 jts of 2 7/8" tbg. Bit depth - 9975'. Prep to clean out 5" liner.

4/01/92

CTD \$1,441,656 13 hr SITP & SICP - 0 psi. Con't GIH w/ 2 7/8" tbg. Drilled out cement in liner top from 10,394' to 10,401' before falling through. Circulated hole clean and con't GIH w/ 2 7/8" tbg. Tagged cement at 13,528'. Drilled out cement bridges and light mud down to 13,775'. Circulated hole clean and pulled up to 13,745'. SDFN. Prep to clean out to approximately 13,925'.

4/02/92

CTD \$1,444,941 11 hr SITP & SICP - 0 psi. Con't drilling out mud and cement down to float collar at 13,908'. Drilled out float collar and cement down to 13,925'. Circulated hole clean and tested csg to 2000 psi. Held OK. POOH w/ 409 jts 2 7/8" tbg and pmpd 20 bbls of diesel down csg. SI for night. Prep to finish POOH and run CBL/PET logs.

4/03/92

CTD \$1,455,776 11 1/2 hr SITP & SICP - 0 psi. Finished POOH w/ 2 7/8" tbg, drill collars and bit. RU HLS and ran CBL/PET logs from 13,916' to surface with 2000 psi applied to csg. SDFN.

4/04/92

CTD \$1,475,996 5 1/2 hr SITP & SICP - 0 psi. RU OWP and WIH w/ 3 1/8" HSC guns with 120 degree phasing and 2 spf. Perforated Sasatch as follows:

12046	12550	13253
12097	12556	13266
12114	12570	13314
12136	12615	13329
12140	12668	13341
12155	12702	13373
12238	12729	13555
12298	12844	13607
12321	12914	13752
12347	12919	13791
12351	12922	13850
12369	12945	
12380	12983	
12398	13017	
12422	13093	
12442	13115	
12457	13121	
12505	13158	
12519	13186	
12526	13233	
12535	13250	

Total Net Ft - 53. Total Holes - 106. Had 900 psi on csg after perforating. All depths from Schlumberger Very Enhanced Phasor Induction log run 2/12/92. Set 7" Mountain States Arrow Drill pkr at 10,361' on wireline. RD OWP and PU latch type seal assembly with seating nipple. WIH w/ 204 jts of 2 7/8" tbg, hydrotesting to 9000 psi. SDFN.

4/05/92

CTD \$1,479,041 13 hr SITP & SICP - 0. Finished GIH w/ 2 7/8" tbg, hydrotesting to 9000 psi. Circulated hole with formation water containing corrosion inhibitor. Latched into pkr at 10,361' and landed tbg with 27,000# compression. Removed BOP and installed tree. Tstd wellhead seals to 5000 psi and tbg-csg annulus to 2000 psi. Both held OK. SDFN. Prep to expel plug from wireline entry guide below pkr and swab test.

4/06/92

CTD \$1,483,826 17 hr SITP & SICP - 0 psi. Pressured tbg to 4200 psi to expel plug from wireline re-entry guide below packer. RU OWP and WIH with 1 11/16" sinker bars to check PBD. Tagged bottom at 13,912' (hit no obstructions). RD OWP. Had 1200 psi on tbg. Bled down pressure - recovered 2 BW. Swbd perfs 12,046-13,850' for 5 1/2 hrs. Recovered 4 BO + 74 BW. Final fluid level - 8400'. Final oil cut - 15%. SDFN. Prep to acidize.

4/07/92

CTD \$1,534,836 13 1/2 hr SITP - 3300 psi. SICP - 0 psi. RU Western Company and installed tree saver. Acidized perfs 12,046-13,850' down 2 7/8" tbg with 30,000 gal of 15% HCL plus additives. Used 130 ball sealers; had complete ball-out. Flushed with formation water. Average injection rate - 8 bpm @ 8950 psi. Maximum pressure - 10,400 psi. ISDP - 800 psi. 15 min - 1370 psi. RD Western and removed tree saver. Flowed well to frac tank and tank battery for 19 hrs on 19/64" choke with FTP - 1300 to 1400 psi. Made 819 BO + 197 BW. Last hour made 44 BO + 0 BW with a good show of gas. Will report gas volume as soon as sales line is in place. Will continue flow testing well and plan to run production logs. Total load pmpd - 842 bbls. To be recovered - 645 bbls.

4/08/92

CTD \$1,545,981 RU Mercury Wireline Company and ran production logs across perfs 12,046' to 13,850'. Preliminary results follows:
12,615 ft - Possible water entry
12,914 ft to 12,922 ft - Probable oil and gas entry

Flowed well to tank battery for 23 1/2 hrs on 19/64" choke with FTP - 1300 psi. Made 1012 BO + 56 BW with gas rate 1067 mcfpd. Total load pmpd - 842 bbls. To be recovered - 589. Prep to set back pressure valve in 2 7/8" hanger and run 1.9" heat string.

4/09/92

CTD \$1,571,231 Set back-pressure valve in 2 7/8" tbg, removed tree and installed BOP. WIH with 191 jts of 1.9" tbg as heat string (6079'). Removed BOP and installed tree. Tested wellhead seals to 5000 psi. Held OK. Connected flowline and heat trace pump. Retrieved back-pressure valve; 8 hr SITP - 2400 psi. Flowed well to tank battery for 16 hrs on choke sizes ranging from 7/64" to 19/64". Made a total of 550 BO + 10 BW. Last hr made 45 BO + 0 BW on 19/64" choke with FTP - 1650 psi. Gas rate last hr - 1145 mcfpd. Total load pmpd - 842 bbls. To be recovered - 579 bbls. Will continue flow tstg.

Loranger #6-22A2

DEV - Duchesne County, Utah - Bluebell - Section 22, T1S, R2W - PZL

W.I. 0.49198% - TD 13,950' - AFE #07016193 - AFE Cost \$1,196,536

COMPLETION

- 4/10/92 CTD \$1,571,231
Well flowed 653 BO and 9 BW in 16 hours on 19/64" choke
with FTP 1700 psi. 570 BLWTR.
- 4/11/92 CTD \$1,571,231
Well flowed 956 BO and 5 BW in 24 hrs on 18/64" ck with
FTP 1600 psi. 565 BLWTR.
- 4/12/92 CTD \$1,677,331
Well flowed 811 BO and 3 BW. Choke size, FTP and
number of hours unknown. 562 BLWTR. Daily cost
includes future installation of pumping unit and rods.
Prep to RD pulling unit.
- 4/13/92 CTD \$1,677,621 Well flowed 852 BO + 0 BW in 24 hrs on
19/64" choke with FTP - 1500 psi. Load to be recovered
- 562 bbls. RD pulling unit. FINAL REPORT.

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

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or 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

2. Name of Operator
Pennzoil Company

3. Address and Telephone No.
P.O. Drawer 10 Roosevelt, Utah 84066 801-722-6206

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
**1082' FSL 1119' FWL SW/SW
 Section 22, T1S, R2W**

5. Lease Designation and Serial No.
FEE land

6. If Indian, Allottee or Tribe Name

7. If unit or CA, Agreement Designation

8. Well Name and No.
LORANGER 6-22A2

9. API Well No.
43-013-31334

10. Field and Pool, or Exploratory Area
BLUEBELL

11. County or Parish, State
DUCHESNE, UTAH

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

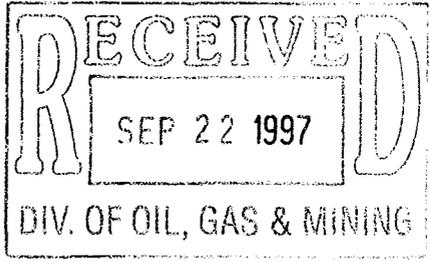
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing repair	<input type="checkbox"/> Water Shut-off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other <u>X Perforate & acidize additional Wasatch</u>	<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 directly drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)

Perforate additional Wasatch from 12146' to 13798'.
 127 net feet, 38 intervals, 254 holes.

Acidize existing and new perforations (12046- 13850', (91 intervals, 180', 360 holes)
 with 18,000 gals 15% HCl in one stage.

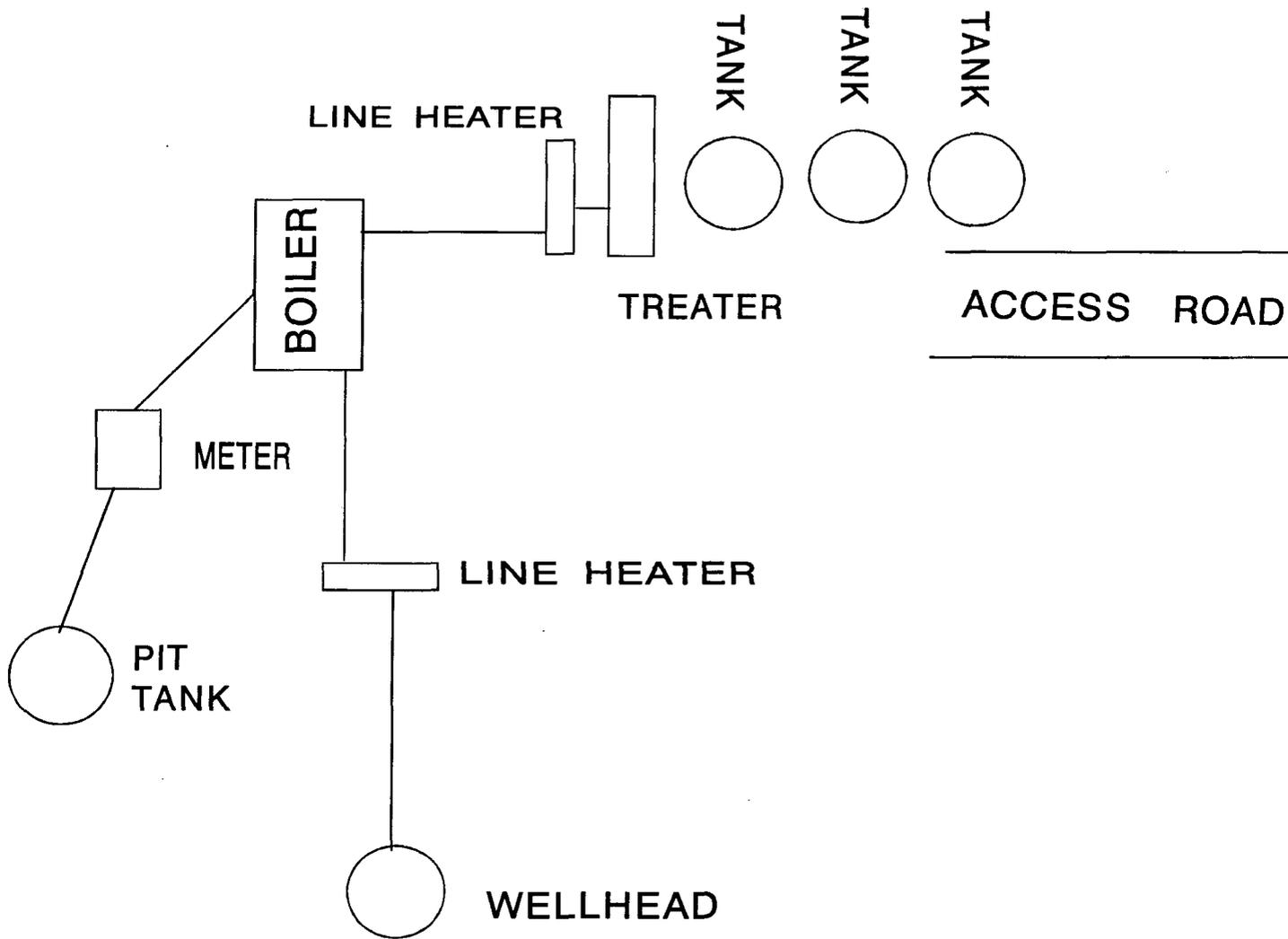


14. I hereby certify that the foregoing is true and correct.
 Signed John Pulley *[Signature]* Title Petroleum Engineer Date 9/17/97

(This space of Federal or State office use.)

Approved by John R. Baya *[Signature]* Title Associate Director Date 9/23/97
 Conditions of approval, if any:

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



LOCATION PLAT

LORANGER 6-22A2
 SEC.22 T.1S R2W
 DUCHESNE COUNTY, UTAH
 API NO. 4301331334



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

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or 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

2. Name of Operator
Pennzoil Company

3. Address and Telephone No.
P.O. Drawer 10 Roosevelt, Utah 84066 801-722-6206

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
**1082' FSL 1119' FWL SW/SW
 Section 22, T1S, R2W**

5. Lease Designation and Serial No.
FEE land

6. If Indian, Allottee or Tribe Name

7. If unit or CA, Agreement Designation

8. Well Name and No.
LORANGER 6-22A2

9. API Well No.
43-013-31334

10. Field and Pool, or Exploratory Area
BLUEBELL

11. County or Parish, State
DUCHESNE, 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 type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing repair	<input type="checkbox"/> Water Shut-off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other <u>X Perforate & acidize additional Wasatch</u>	<input type="checkbox"/> Dispose Water

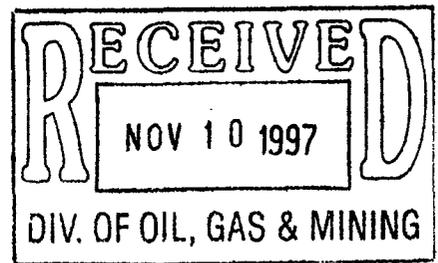
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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)

Perforated additional Wasatch from 12146' to 13159'.
116 net feet, 33 intervals, 232 holes.

Acidized perforations 12,046-13752 (Fill at 13,758') with 18000 gals 15% HCL with 720 ball sealers.

Returned to production 10/25/97



14. I hereby certify that the foregoing is true and correct.
 Signed John Pulley *[Signature]* Title Petroleum Engineer Date 11/6/97

(This space of Federal or State office use.)

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

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

NO tax credit 9/98

OPERATOR CHANGE WORKSHEET

ROUTING

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

Enter date after each listed item is completed

Change of Operator (Well Sold)

Designation of Agent

Operator Name Change (Only)

X Merger

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

04-01-2000

FROM: (Old Operator):

PENNZOIL COMPANY
 Address: P. O. BOX 290
 NEOLA, UT 84053
 Phone: 1-(435)-353-4121
 Account No. N0705

TO: (New Operator):

DEVON ENERGY EXPL & PROD CO LLC
 Address: 20 NO. BROADWAY STE 1500
 OKLAHOMA CITY, OK 73102-8260
 Phone: 1-(405)-235-3611
 Account N1275

CA No.

Unit:

WELL(S)

NAME	API NO.	ENTITY NO.	SEC. TWN RNG	LEASE TYPE	WELL TYPE	WELL STATUS
DUNCAN 4-2A2	43-013-31276	11258	02-01S-02W	FEE	GW	P
MECCA 2-8A2	43-013-31231	10981	08-01S-02W	FEE	OW	P
HAMBLIN 3-9A2	43-013-31278	11094	09-01S-02W	FEE	GW	P
SUNDANCE 4-15A2	43-013-31333	11269	15-01S-02W	FEE	OW	P
LAMB 2-16A2	43-013-31390	11487	16-01S-02W	FEE	OW	S
LAMICQ URRITY 4-17A2	43-013-31190	10764	17-01S-02W	FEE	OW	P
LAMICQ 2-20A2	43-013-31191	10794	20-01S-02W	FEE	OW	P
LORANGER 6-22A2	43-013-31334	11335	22-01S-02W	FEE	OW	P
LABRUM 2-23A2	43-013-31393	11514	23-01S-02W	FEE	OW	P
LORANGER 2-24A2	43-013-31322	11244	24-01S-02W	FEE	OW	P
SHAW 2-27A2	43-013-31184	10753	27-01S-02W	FEE	OW	P
WISSE 3-35A2	43-013-31215	10925	35-01S-02W	FEE	OW	P
COX 2-36A2	43-013-31335	11330	36-01S-02W	FEE	OW	P
HATCH 2-3B1	43-013-31147	10615	03-02S-01W	FEE	OW	P
BAR F 2-5B1	43-013-31286	11113	05-02S-01W	FEE	OW	P
FRESTON 2-8B1	43-013-31203	10851	08-02S-01W	FEE	OW	P
NORLING 2-9B1	43-013-31151	10616	09-02S-01W	FEE	OW	P
EDWARDS 3-10B1	43-013-31332	11264	10-02S-01W	FEE	OW	P
POWELL 2-16B1	43-013-31820	12342	16-02S-01W	FEE	OW	P
CHAPMAN 2-4B2	43-013-31378	11485	04-02S-02W	FEE	OW	P
PEARSON 2-11B2	43-013-31356	11359	11-02S-02W	FEE	OW	P
SMITH 2-9C5	43-013-31321	11245	09-03S-05W	FEE	OW	P
BALLARD 2-15B1	43-047-32351	11476	15-02S-01W	FEE	OW	S

OPERATOR CHANGES DOCUMENTATION

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 04/20/2000
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 04/20/2000

3. The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 10/12/2000
4. Is the new operator registered in the State of Utah: YES Business Number: 4549132-0143
5. If **NO**, the operator was contacted on: _____
6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the (merger, name change, or operator change for all wells listed on Federal or Indian leases on: 02/16/2000
7. **Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: N/A
8. **Federal and Indian Communization Agreements ("CA"):** The BLM or the BIA has approved the operator change for all wells listed involved in a CA on: N/A
9. **Underground Injection Control ("UIC") Pro;** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on: 10/16/2000
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 10/16/2000
3. Bond information entered in RBDMS on: _____
4. Fee wells attached to bond in RBDMS on: _____

STATE BOND VERIFICATION:

1. State well(s) covered by Bond No.: _____

FEE WELLS - BOND VERIFICATION/LEASE INTEREST OWNER NOTIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed has furnished a bond: YES
2. The **FORMER** operator has requested a release of liability from their bond on: 09/26/2000
The Division sent response by letter on: 10/03/2000
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: 10/17/2000

FILMING:

1. All attachments to this form have been **MICROFILMED** on: 3.2.01

FILING:

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

COMMENTS:

DESIGNATION OF AGENT OR OPERATOR

The undersigned is, on record, the holder of oil and gas lease

LEASE NAME: As per the attached spreadsheet.

LEASE NUMBER: _____

and hereby designates

NAME: Devon Energy Production Company, L.P.

ADDRESS: 20 North Broadway, Suite 1500, Oklahoma City, OK 73102-8260

as his agent /operator , with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the Division Director or Authorized Agent may serve written or oral instructions in securing compliance with the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah with respect to:

(Describe acreage to which this designation is applicable, and identify each applicable oil and gas well by name and API number. Attach additional pages as needed.)

See attached spreadsheet.

Note: Please use April 1, 2000 as the starting date for production reporting purposes.

RECEIVED

APR 20 2000

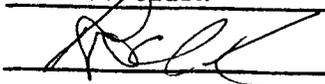
DIVISION OF
OIL, GAS AND MINING

It is understood that this designation of agent/operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah. It is also understood that this designation of agent or operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated agent/operator, the lessee will make full and prompt compliance with all rules, lease terms or orders of the Board of Oil, Gas and Mining of the State of Utah or its authorized representative.

The lessee agrees to promptly notify the Division Director or Authorized Agent of any change in this designation.

Effective Date of Designation: January 1, 2000

BY: (Name) R. D. Glark
(Signature) 
(Title) Vice President
(Phone) 405-235-3611

OF: (Company) PennzEnergy Exploration and Production Company, L.L.C.
(Address) 20 North Broadway, Suite 1500
Oklahoma City, OK 73102-8260



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

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

RECEIVED

FEB 17 2000

DIVISION OF
OIL, GAS AND MINING

FEB 16 2000

In Reply Refer To:
3106
U-0575A et al
(UT-932)

NOTICE

Devon Energy Production Company L.P.	:	Oil and Gas
20 North Broadway, Suite 1500	:	U-0575A et al
Oklahoma City, Oklahoma 73102-8260	:	

Merger Recognized

Acceptable evidence has been filed in this office concerning the merger of Devon Energy Corporation (Nevada) and PennzEnergy Exploration and Production Company, L.L.C. into Devon Energy Production Company, L.P. with that company being the surviving entity.

The oil and gas lease files listed on the enclosed exhibit have been noted as to the merger. The exhibit was compiled from your list of leases, and a list of leases obtained from our computer system. We have not attempted to identify leases where the entities are the operator on the ground maintaining no vested record title or operating rights interests. We are notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the merger by a copy of this notice. If additional documentation for changes of operator are required by our Field Offices, you will be contacted by them.

PennzEnergy Company assigned 100 percent of the record title interest, in the following leases on the list submitted by Devon Energy Production Company L.P., to Barrett Resources Corporation (Barrett) effective January 1, 2000.

U-0143511	U-4377	UTU-67943
U-0143512	U-4378	

Subsequently, Barrett assigned 100 percent of the record title interest to Coastal Oil & Gas Corporation effective February 1, 2000. A copy of this notice is being placed in these files to cover any overriding royalty interest that would be held by the surviving entity.

Lease U-0115614A is held 100 percent by Flying J Oil & Gas. PennzEnergy Company holds 100 percent of the record title interest in lease U-3575. No record title assignment assigning the interest to PennzEnergy Exploration and Production Company, L.L.C. has been filed in this office. A copy of this notice will be placed in the lease files to cover any overriding royalty interest that would be held by the surviving entity.

Leases U-61343, UTU-64532, UTU-66485 and UTU-75200 have expired and are closed on the records of this office.

An assumption rider for BLM Bond No. CO1104 has been filed in the Colorado State Office.

/s/ Robert Lopez

Robert Lopez
Chief, Branch of
Minerals Adjudication

Enclosure
Exhibit

cc: Vernal Field Office (w/encl.)
Moab Field Office (w/encl.)
MMS, Reference Data Branch, MS3130, P.O. Box 5860, Denver, CO 80217 (w/encl.)
State of Utah, DOGM, Attn: Kristen Risbeck (Ste. 1210), Box 145801, SLC, UT (w/encl.)
Teresa Thompson (UT-931) (w/encl.)
Irene Anderson (UT-932) (w/encl.)
LaVerne Steah (UT-942) (w/encl.)

Exhibit of Leases

U-0575A
U-01188B
U-016654
U-0115614A
U-0115615
U-0126825
U-0141454

U-0141459
U-0143511
U-0143512
U-0144868A
U-3099
U-3575
UTU-74888

U-4377
U-4378
U-16131
U-31262
U-44426
UTU-67943

Communitization Agreements

U-58774
U-58799
U-58830
U-58834

U-58835
U-58839
U-58844
U-58854

U-60827
U-60831
U-68998



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

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

In Reply Refer To:
3100
U-4377
UTU-66485
(UT-932)

MAR 26 1999

NOTICE

PennzEnergy Exploration and Production L.L.C. : Oil and Gas
P.O. Box 2967 :
Houston, TX 77252-2967 :

Merger Recognized

Acceptable evidence has been filed in this office concerning the merger of Pennzoil Exploration and Production Company into PennzEnergy Exploration and Production L.L.C. with PennzEnergy Exploration and Production L.L.C. being the surviving entity.

For our purposes, the merger is recognized effective December 28, 1998, (Secretary of State's approval date).

Oil and gas lease files U-4377 and UTU-66485 have been noted as to the merger. The lease file numbers were obtained from a list of leases drawn from our Automated Land and Mineral Record System (ALMRS). We have not abstracted the lease files to determine if the entity affected by the merger holds an interest in the leases identified nor have we attempted to identify leases where the entity is the operator on the ground maintaining no vested record title or operating rights interests. We are notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the change by a copy of this notice. If additional documentation for changes of operator are required by our Field Offices, you will be contacted by them.

By recognition of the merger, the principal/obligor is automatically changed by operation of law from Pennzoil Exploration and Production Company to PennzEnergy Exploration and Production L.L.C. on Bond No. 8023 29 91 (BLM Bond No. NM0043). The principal/obligor is also automatically changed from Pennzoil Exploration and Production Company to PennzEnergy Exploration and Production L.L.C. on Bond No. 8134-90-99 (BLM Bond No. NM2142).

IRENE J. ANDERSON

Irene J. Anderson
Acting Group Leader,
Minerals Adjudication Group

cc: Moab Field Office
Vernal Field Office
MMS, Reference Data Branch, MS 3130, Box 5860, Denver, CO 80217
State of Utah, DOGM, Attn: Kristen Risbeck (Ste. 1210), Box 145801, SLC, UT 84114-5801
Teresa Thompson (UT-931)



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

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

In Reply Refer To:
3100
U-0115615 et al
(UT-932)

MAR 26 1999

NOTICE

PennzEnergy Company : Oil and Gas
P.O. Box 2967 :
Houston, TX 77252-2967 :

Merger Recognized

Acceptable evidence has been filed in this office concerning the merger of PennzEnergy Company into Pennzoil Company with PennzEnergy Company being the surviving entity.

For our purposes, the merger is recognized effective December 30, 1998, (Secretary of State's approval date).

The oil and gas lease files and communitization agreement computer files identified on the enclosed exhibit have been noted as to the merger. The exhibit was compiled from a list of leases obtained from our Automated Land and Mineral Record System (ALMRS). We have not abstracted the lease files to determine if the entity affected by the merger holds an interest in the leases identified nor have we attempted to identify leases where the entity is the operator on the ground maintaining no vested record title or operating rights interests. We are notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the change by a copy of this notice. If additional documentation for changes of operator are required by our Field Offices, you will be contacted by them.

By recognition of the merger, the principal/obligor is automatically changed by operation of law from Pennzoil Company to PennzEnergy Company on Bond No. 8134-90-99 (BLM Bond No. NM2142).

IRENE J. ANDERSON

Irene J. Anderson
Acting Group Leader,
Minerals Adjudication Group

Enclosure
Exhibit

cc: Moab Field Office
Vernal Field Office
MMS, Reference Data Branch, MS 3130, Box 5860, Denver, CO 80217
State of Utah, DOGM, Attn: Kristen Risbeck (Ste. 1210), Box 145801, SLC, UT 84114-5801
Teresa Thompson (UT-931)

Devon Energy Production Company, L.P.

FILED

DEC 30 1999

OKLAHOMA SECRETARY
OF STATE

Certificate of Merger

TO: The Oklahoma Secretary of State
101 State Capitol
Oklahoma City, Oklahoma 73105

Devon Energy Production Company, L.P., a limited partnership organized under the laws of the State of Oklahoma, for the purpose of filing a Certificate of Merger pursuant to the provisions of 54 O.S. § 310.1, does hereby execute the following Certificate of Merger:

1. The name and jurisdiction of formation or organization of each of a domestic limited partnership, a foreign corporation and a foreign limited liability company which are to merge are:

<u>Name of Organization</u>	<u>Type of Organization</u>	<u>Jurisdiction of Formation</u>
Devon Energy Production Company, L.P.	Limited Partnership	Oklahoma
Devon Energy Corporation (Nevada)	Corporation	Nevada
PennzEnergy Exploration and Production Company, L.L.C.	Limited Liability Company	Delaware

2. An Agreement of Merger has been approved and executed by the limited partnership, the corporation and the limited liability company which are to merge.

3. The name of the surviving or resulting limited partnership is:

Devon Energy Production Company, L.P.

4. The merger shall be effective upon the filing of this Certificate of Merger with the Secretary of State of Oklahoma.

5. The Agreement of Merger is on file at the place of business of the surviving limited partnership at 1500 Mid-America Tower, 20 North Broadway, Oklahoma City, Oklahoma 73102.

6. A copy of the Agreement of Merger shall be furnished by the surviving or resulting limited partnership, upon request and without cost, to any partner of any limited partnership or any person holding an interest in any other business entity which is to merge.

RECEIVED

MAR 13 2000

DIVISION OF
OIL, GAS AND MINING

DATED as of the 30th day of December, 1999.

Devon Energy Management Company, L.L.C.
General Partner

By: *J. Larry Nichols*
J. Larry Nichols, Manager

RECEIVED

MAR 13 2000

DIVISION OF
OIL, GAS AND MINING

LD 635381-001

OFFICE OF THE SECRETARY OF STATE



CERTIFICATE OF MERGER

WHEREAS,

DEVON ENERGY PRODUCTION COMPANY, L.P.

a limited partnership organized under the laws of the State of OKLAHOMA, has filed in the office of the Secretary of State duly authenticated evidence of a merger whereby said limited partnership is the survivor, as provided by the laws of the State of Oklahoma.

NOW THEREFORE, I, the undersigned Secretary of State of Oklahoma, by virtue of the powers vested in me by law, do hereby issue this Certificate evidencing such merger.

IN TESTIMONY WHEREOF, I hereunto set my hand and cause to be affixed the Great Seal of the State of Oklahoma.

Filed in the City of Oklahoma City this 30TH
day of DECEMBER, 1999.

Mike Hunter
Secretary of State

By: *Butt Lane*

RECEIVED

APR 20 2000

DEVON ENERGY PRODUCTION COMPANY, L.P.DIVISION OF
OIL, GAS AND MINING**UTAH PROPERTIES**

	<u>API NO.</u>	<u>WELL NAME & NO.</u>	<u>LOCATION</u>	<u>COUNTY</u>	<u>FIELD NAME</u>	<u>LEASE NO. / AGREEMENT NO.</u>
28	4301330297	GEORGE MURRAY 1-16B1	SEnw-16-2S-1W	DUCHESNE	BLUEBELL	
29	4301330307	UTE ALLOTTED 1-36Z2	NWSE-36-1N-2W	DUCHESNE	BLUEBELL	1420H621676 / 9C124
30	4301330347	LAMICQ URRUTY U 4-5A2	SEnw-5-1S-2W	DUCHESNE	BLUEBELL	
31	4301330359	H G COLTHARP 1-15B1	SEnw-15-2S-1W	DUCHESNE	BLUEBELL	
32	4301330369	STATE 3-18A1	NESw-18-1S-1W	DUCHESNE	BLUEBELL	9C142
33	4301330564	D L GALLOWAY 1-14B2	SWNE-14-2S-2W	DUCHESNE	BLUEBELL	
34	4301330807	MARGUERITE 2-8B2	SEnw-8-2S-2W	DUCHESNE	BLUEBELL	96102
35	4301330809	LAMICQ 2-6B1	NWSE-6-2S-1W	DUCHESNE	BLUEBELL	
36	4301330821	DILLMAN 2-28A2	SWNE-28-1S-2W	DUCHESNE	BLUEBELL	
37	4301330903	HAMBLIN 2-26A2	SWNE-26-1S-2W	DUCHESNE	BLUEBELL	
38	4301330912	RACHEL JENSEN 2-16C5	NENw-16-3S-5W	DUCHESNE	ALTAMONT	
39	4301330921	ROBERTSON UTE 2-2B2	NENE-2-2S-2W	DUCHESNE	BLUEBELL	9682
40	4301330975	JOHN 2-3B2	NWNE-3-2S-2W	DUCHESNE	BLUEBELL	
41	4301330995	LAMICQ ROBERTSON STATE 2-1B2	SWNE-1-2S-2W	DUCHESNE	BLUEBELL	
42	4301331009	UTE 2-7A2	CNE-7-1S-2W	DUCHESNE	BLUEBELL	1420462811
43	4301331147	HATCH 2-3B1	SEnw-3-2S-1W	DUCHESNE	BLUEBELL	
44	4301331151	NORLING 2-9B1	SWSw-9-2S-1W	DUCHESNE	BLUEBELL	
45	4301331184	SHAW 2-27A2	SESw-27-1S-2W	DUCHESNE	BLUEBELL	
46	4301331190	LAMICQ URRUTY 4-17A2	SEnw-17-1S-2W	DUCHESNE	BLUEBELL	
47	4301331191	LAMICQ 2-20A2	SESE-20-1S-2W	DUCHESNE	BLUEBELL	
48	4301331192	BOREN 3-11A2	SWSw-11-1S-2W	DUCHESNE	BLUEBELL	96107
49	4301331203	FRESTON 2-8B1	SWNE-8-2S-1W	DUCHESNE	BLUEBELL	
50	4301331215	WISSE 3-35A2	SWSw-35-1S-2W	DUCHESNE	BLUEBELL	
51	4301331231	MECCA 2-8A2	SESE-8-1S-2W	DUCHESNE	BLUEBELL	
52	4301331232	MARK 2-25A2	NWNE-25-1S-2W	DUCHESNE	BLUEBELL	NW537
53	4301331233	DUNCAN 4-12A2	SWNW-12-1S-2W	DUCHESNE	BLUEBELL	UTU77363
54	4301331235	SWYKES 2-21A2	NWNw-21-1S-2W	DUCHESNE	BLUEBELL	NW590

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APR 20 2000

DEVON ENERGY PRODUCTION COMPANY, L.P.
UTAH PROPERTIES

DIVISION OF
 OIL, GAS AND MINING

	<u>API NO.</u>	<u>WELL NAME & NO.</u>	<u>LOCATION</u>	<u>COUNTY</u>	<u>FIELD NAME</u>	<u>LEASE NO. / AGREEMENT NO.</u>
55	4301331238	SHERMAN 2-12B2	SWSE-12-2S-2W	DUCHESNE	BLUEBELL	9690
56	4301331245	MILES 7-7B3	SWNW-7-2S-3W	DUCHESNE	ALTAMONT	9675
57	4301331276	DUNCAN 4-2A2	NESE-2-1S-2W	DUCHESNE	BLUEBELL	
58	4301331278	HAMBLIN 3-9A2	SENE-9-1S-2W	DUCHESNE	BLUEBELL	
59	4301331285	DUNCAN 3-7A1	NWNW-7-1S-1W	DUCHESNE	BLUEBELL	
60	4301331286	BAR F 2-5B1	SWSE-5-2S-1W	DUCHESNE	BLUEBELL	
61	4301331299	CORNABY 2-14A2	NENE-14-1S-2W	DUCHESNE	BLUEBELL	NW498
62	4301331317	MITCHELL 2-4B1	SESW-4-2S-1W	DUCHESNE	BLUEBELL	9662
63	4301331321	SMITH 2-9C5	SWSW-9-3S-5W	DUCHESNE	ALTAMONT	
64	4301331322	LORANGER 2-24A2	N/2NE-24-1S-2W	DUCHESNE	BLUEBELL	
65	4301331325	UTE 2-6B3	SWSW-6-2S-3W	DUCHESNE	ALTAMONT	1420H621858 / 9651
66	4301331326	MCELPRANG 2-30A1	SWSW-30-1S-1W	DUCHESNE	BLUEBELL	NW625
67	4301331327	SMITH 2-7C5	NESW-7-3S-5W	DUCHESNE	ALTAMONT	1420H622389
68	4301331328	SMITH 2-18C5	SWSE-18-3S-5W	DUCHESNE	ALTAMONT	1420H622392
69	4301331329	UTE 2-24A3	SWNW-24-1S-3W	DUCHESNE	BLUEBELL	1420H621761
70	4301331330	UTE 5-19A2	NWNW-19-1S-2W	DUCHESNE	BLUEBELL	1420H621751
71	4301331332	EDWARDS 3-10B1	SWSW-10-2S-1W	DUCHESNE	BLUEBELL	
72	4301331333	SUNDANCE 4-15A2	SWNE-15-1S-2W	DUCHESNE	BLUEBELL	
73	4301331334	LORANGER 6-22A2	SWSW-22-1S-2W	DUCHESNE	BLUEBELL	
74	4301331335	COX 2-36A2	NWNW-36-1S-2W	DUCHESNE	BLUEBELL	
75	4301331338	SMITH 2-6C5	SESW-6-3S-5W	DUCHESNE	ALTAMONT	1420H622388 / UTU70553
76	4301331341	FRESTON 2-7B1	SENE-7-2S-1W	DUCHESNE	BLUEBELL	1420H621970 / 9686
77	4301331356	PEARSON 2-11B2	SENE-11-2S-2W	DUCHESNE	BLUEBELL	
78	4301331378	CHAPMAN 2-4B2	SWNW-4-2S-2W	DUCHESNE	BLUEBELL	
79	4301331390	LAMB 2-16A2	NENE-16-1S-2W	DUCHESNE	BLUEBELL	
80	4301331393	LABRUM 2-23A2	SWSW-23-1S-2W	DUCHESNE	BLUEBELL	
81	4301331820	POWELL 2-16B1	NENE-16-2S-1W	DUCHESNE	BLUEBELL	

DEVON ENERGY PRODUCTION COMPANY, L.P.
UTAH PROPERTIES

	<u>API NO.</u>	<u>WELL NAME & NO.</u>	<u>LOCATION</u>	<u>COUNTY</u>	<u>FIELD NAME</u>	<u>LEASE NO. / AGREEMENT NO.</u>
82	4304730164	ROBERTSON UTE ST 1-12B1	SWNE-12-2S-1W	UNITAH	BLUEBELL	96101
83	4304730176	MAY UTE FEDERAL 1-13B1	NWSE-13-2S-1W	UNITAH	BLUEBELL	NW673
84	4304731981	COOK 1-26B1	SWSW-26-2S-1W	UNITAH	BLUEBELL	UTU68998
85	4304732178	CHRISTIANSEN 2-12B1	SWSE-12-2S-1W	UNITAH	BLUEBELL	96101
86	4304732351	BALLARD 2-15B1	SENE-15-2S-1W	UNITAH	BLUEBELL	
87	4304732744	RICH 2-13B1	NWNW-13-2S-1W	UNITAH	BLUEBELL	NW673
88	4301320255	SWD 4-11A2	NWNW-11-1S-2W	DUCHESNE	BLUEBELL	96107
89	4301330021	SWD 1-3A2	SESE-3-1S-2W	DUCHESNE	BLUEBELL	
90	4301330346	SWD 2-28A2	NWSE-28-1S-2W	DUCHESNE	BLUEBELL	
91	4301330367	SWD 2-10B1	NWNW-10-2S-1W	DUCHESNE	BLUEBELL	
92	4301330389	SWD 2-26A2	NESW-26-1S-2W	DUCHESNE	BLUEBELL	
93	4301330388	SWD 2-17C5	SENE-17-3S-5W	DUCHESNE	BLUEBELL	

RECEIVED

APR 20 2000

DIVISION OF
OIL, GAS AND MINING

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

5. LEASE DESIGNATION AND SERIAL NUMBER:

FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:

LORANGER 6-22A2

9. API NUMBER:

4301331334

10. FIELD AND POOL, OR WILDCAT:

Bluebell/Altamont/Wasatch

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 _____

2. NAME OF OPERATOR:

DEVON ENERGY PRODUCTION COMPANY, L.P.

3. ADDRESS OF OPERATOR:

P.O. BOX 290

CITY

NEOLA

STATE

UT

ZIP

84053

PHONE NUMBER:

(435) 353-4121

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1082' FSL 1119' FWL

COUNTY: DUCHESNE

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 22 1S 2W 6

STATE:

UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>4/15/2003</u>	<input checked="" type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input checked="" type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input 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.

MIRU COMPLETION RIG.
PULL PRODUCTION EQUIPMENT, SET A ONEWAY CIBP AT 12,000'.
FILL AND TEST CASING TO 1000 PSI.
PERFORATE THE WASATCH INTERVAL 10984 TO 11930', 40 INTERVALS, 187', 374 HOLES, WITH 3 1/8" HSC GUNS
RUN AND SET A PACKER AT 10,850', FILL ANNULUS
ACIDIZE WITH 18,700 GALS 15% HCL ACID WITH ADDITIVES AND 375 BALLS FOR DIVERSION.
SWAB OR FLOW TEST.
RETURN TO PRODUCTION

NAME (PLEASE PRINT) JOHN PULLEY

TITLE SR. OPERATIONS ENGINEER

SIGNATURE

John Pulley

DATE 3/7/2003

(This space for State use only)

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

DATE: 3/17/2003

(See Instructions on Reverse Side)

COPY SENT TO OPERATOR

Date: 03-17-03

Initials: JPD

RECEIVED

MAR 14 2003

DIV. OF OIL, GAS & MINING

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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

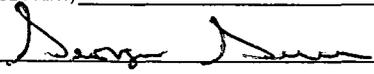
1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
2. NAME OF OPERATOR: DEVON ENERGY PRODUCTION COMPANY, LP		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: P.O. BOX 290 CITY NEOLA STATE UT ZIP 84066		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1082' FSL 1119' WL		8. WELL NAME and NUMBER: LORANGER 6-22A2
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 22 1S 2W 6		9. API NUMBER: 4301331334
COUNTY: DUCHESNE		10. FIELD AND POOL, OR WILDCAT: BLUEBELL/ALTAMONT/WASATC
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 checked="" type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input checked="" type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 8/28/2003	<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.

SET 5" BAKER 10K ONE-WAY PLUG @ 12,000', TEST CSG TO 1000 PSI.
PERFORATE WASATCH INTERVALS 10,984 - 11,930', 39 INTERVALS, 179' 358 HOLES W/ 3-1/8 HSC GUN.
SET WL 5" BAKER PACKER W/ GLASS DISK @ 10,850'.
ACIDIZE ABOVE INTERVAL W/ 19,000 GALS 15% HCL W/ ADDITIVES AND 375 BALLS FOR DIVERSION.
SWAB TEST.
PULL WL 5" BAKER PACKER W/ GLASS DISK FROM 10,850'.
RIH W/ ROD EQUIPMENT. RETURN TO PRODUCTION.

NAME (PLEASE PRINT) <u>GEORGE GURR</u>	TITLE <u>ASSISTANT FOREMAN</u>
SIGNATURE 	DATE <u>9/12/2003</u>

(This space for State use only)

RECEIVED
SEP 18 2003
DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: LORANGER 6-22A2
2. NAME OF OPERATOR: DEVON ENERGY PROD CO LP	9. API NUMBER: 43013313340000
3. ADDRESS OF OPERATOR: P.O. Box 290 8345 North 5125 West, Neola, UT, 84053	PHONE NUMBER: 405 552-7883 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1082 FSL 1119 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 22 Township: 01.0S Range: 02.0W Meridian: U	9. FIELD and POOL or WILDCAT: BLUEBELL COUNTY: DUCHESNE STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 5/2/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input checked="" type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input checked="" type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 50px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 Recompletion will cleanout well and acidize existing intervals. Perforate Lower Green River 9,746 - 10,902', acidize and test. Return to production.
 Attachment: well history and procedure.

Approved by the Utah Division of Oil, Gas and Mining

Date: 04/27/2011

By: *Dark K. Quist*

NAME (PLEASE PRINT) Deanna Bell	PHONE NUMBER 435 353-5780	TITLE Senior Field Technician
SIGNATURE N/A	DATE 4/14/2011	

LORANGER 6-22A2, RECOMPLETION

**DEVON ENERGY PRODUCTION COMPANY
WORKOVER PROCEDURE
LORANGER 6-22A2
SECTION 22, T1S, R2W
BLUEBELL/ALTAMONT FIELD
DUCHESNE COUNTY, UTAH**

OBJECTIVE:

Acidize existing perforations and perforate additional intervals in Lower Green River. Comingle and put well back on pump.

JUSTIFICATION:

The Loranger 6-22A2 was originally completed in 1992 in the Wasatch with perforations from 12046' to 13850'. Additional perforations were added within the already perforated interval in 1997. In 2003 upper Wasatch perforations were added from 10984' to 11930'. The well is currently producing at ~16 BOPD and ~40 MCFD.

This re-completion will clean out the well and the existing intervals will be acidized. An additional interval will be perforated from 9746'-10902', acidized and tested. The well will be comingled and put back on production.

WELL DATA:

API No	43 013 31334		
Completion Date:	4/92		
TD:	13950'	PBTD	13912'
Casing:	10 3/4" 40.5# K-55 set at 3519' 7" 23# S-95 & N-80 set at 10,700' 5" 18# P-110 from 10,392' to 13950'		

LORANGER 6-22A2, RECOMPLETION

Perforations:	12046-13850	1992
	12146-13159	1997
	10984-11930	2003

WELL HISTORY:

04-02-92 Cleaned out to 13,925'

04-03-92 Ran CBL/CET logs.

TOC:	400'
2800-5000'	Poor bond
5000-6200'	Fair bond
6200-6700'	Good bond
6700-7950'	Fair bond
7950-8020'	Poor bond
8020-9670'	Good bond
9670-9840'	Poor bond
9840-13900'	Good bond

04-04-92 Perforated 12,046-13,850' (53 intervals, 53', 106 holes)

04-07-92 Acidized with 30,000 gals 15% HCL. Had complete ball out.

04-08-92 Ran production log with well flowing 1012 BOPD, 56 BWPD and 1057 MCFGPD with 1300 psi flowing tubing pressure.

12615'	Possible water entry
12914-12922	Probable oil & gas entry.

11-24-93 Wireline tag at 13,830'

11-27-93 Set pumping unit and ran rods.

10-16-97 Perforated 12146-13159' (33 intervals, 116', 232 holes)
Tagged fill at 13758'.

10-20-97 Acidized perforations 12046-13752 with 18000 gals 15% HCL

10-26-97 Put on pump with SN above liner at 10,245' with 3 ½" gas anchor.

LORANGER 6-22A2, RECOMPLETION

- 08-08-03 Set a Baker one-way CIBP at 12,000'. Fill and test casing to 1000 psi. Perforated Red Bed interval 10984 - 11930', 39 intervals, 179', 358 holes with 3 1/8" HSC charges. Set a Baker WL packer on wireline at 10850'.
- 08-14-03 Halliburton acidized perforations 10984-11930' with 19000 gals 15% HCL acid and 375 balls. AIR 5 BPM, AIP 5500 psi.
- 08-16-03 Left well flowing to tank battery
- 08-28-03 Pulled Baker packer at 10850'.
- 09-02-03 Finished putting well back on pump.
- 12-18-03 Washed over one-way at 12000', pushed to 13772' SLM.
- 12-23-03 Returned to production producing from perforations 10984 – 11930 and 12046-13850'
- 02-??-04 Sped unit from 6 ½ SPM to 8 SPM
- 09-16-05 Repaired side string tubing leak. PSN @ 10,195'
- 7-27-10 Convert to Rotaflex P/U.
- 8-10-10 Clean casing strings w/ bits. Lower PSN to 11998'.

PROCEDURE:

1. RDMO pumping unit.
2. MIRU workover rig with pump and tank. Test the dead men prior to moving in and rigging up.
3. POOH with rods & pump, 1.9" tubing side string, 2-7/8" production tubing.
4. TIH with a bit and scraper and clean out to PBTD. Attempt to circulate fluid to surface. POOH.
5. TIH with 2-7/8" tubing and a 5" treating packer and set at 10800". Acidize well with 10,000 gal of 15% HCl with standard additives and 1000 bio-ball sealers for diversion.

LORANGER 6-22A2, RECOMPLETION

6. Swab test to determine rate, cut and fluid level. Swab until the pH is five or greater.
7. POOH with tubing, packer.
8. RU Electric Line and TIH with a 5" RBP and set at ~10950', dump 1 sk of sand on top. Load casing and pressure test casing to 1,000 psi.
9. Rig up wireline with a full lubricator and grease for pressure control. Perforate Lower Green River 9746'-10902' overall as per perforation detail. RDMO wireline.
10. TIH with 2-7/8" tubing and a 7" treating packer and set at ~9600'.
11. Swab test the interval prior to acidizing to determine the rate, oil cut and fluid level. Catch an oil sample for compatibility testing with the acid.
12. Acidize the interval with 10,000 gals of 15% HCl with standard additives and 800 bio-ball sealers for diversion.
13. Swab test to determine rate, cut and fluid level. Swab until the pH is five or greater.
14. Release packer and POOH. TIH and recover RBP.
15. Run production equipment and put well on pump.

STAGE 1 PROPOSED
Lower Green River

Perfs picked on Dual Induction Log dated 1/10/92, 2/12/92

No.	Perforated Interval	Feet	SPF	Holes	CBL Depth	Comments
1	9746	9756	10	2	20	
2	9766	9776	10	2	20	
3	9780	9796	16	2	32	
4	9808	9812	4	2	8	
5	9836	9840	4	2	8	
6	9860	9864	4	2	8	
7	9900	9908	8	2	16	
8	9912	9922	10	2	20	
9	9940	9950	10	2	20	
10	9974	9988	14	2	28	
11	10026	10046	20	2	40	
12	10148	10158	10	2	20	
13	10170	10176	6	2	12	
14	10196	10204	8	2	16	
15	10209	10211	2	2	4	
16	10214	10218	4	2	8	
17	10254	10262	8	2	16	
18	10283	10287	4	2	8	
19	10337	10339	2	2	4	
20	10349	10353	4	2	8	
21	10380	10384	4	2	8	
22	10420	10436	16	2	32	5" Liner
23	10440	10448	8	2	16	5" Liner
24	10455	10457	2	2	4	5" Liner
25	10480	10482	2	2	4	5" Liner
26	10442	10450	8	2	16	5" Liner
27	10508	10510	2	2	4	5" Liner
28	10516	10520	4	2	8	5" Liner
29	10533	10539	6	2	12	5" Liner
30	10546	10548	2	2	4	5" Liner
31	10554	10556	2	2	4	5" Liner
32	10574	10576	2	2	4	5" Liner
33	10602	10606	4	2	8	5" Liner
34	10612	10616	4	2	8	5" Liner
35	10726	10730	4	2	8	5" Liner
36	10732	10734	2	2	4	5" Liner
37	10742	10752	10	2	20	5" Liner
38	10754	10756	2	2	4	5" Liner
39	10758	10760	2	2	4	5" Liner
40	10774	10778	4	2	8	5" Liner
41	10817	10821	4	2	8	5" Liner
42	10838	10840	2	2	4	5" Liner
43	10848	10850	2	2	4	5" Liner
44	10862	10866	4	2	8	5" Liner

45	10888	10892	4	2	8	5" Liner
46	10898	10902	4	2	8	5" Liner

Number of Intervals	46
Net Feet of Perforations	268
Number of Holes	536

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: LORANGER 6-22A2	
2. NAME OF OPERATOR: DEVON ENERGY PROD CO LP	9. API NUMBER: 43013313340000	
3. ADDRESS OF OPERATOR: P.O. Box 290 8345 North 5125 West, Neola, UT, 84053	PHONE NUMBER: 405 552-7883 Ext	9. FIELD and POOL or WILDCAT: BLUEBELL
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1082 FSL 1119 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 22 Township: 01.0S Range: 02.0W Meridian: U	COUNTY: DUCHESNE	
		STATE: UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input checked="" type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 6/8/2011	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>

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

Subsequent report for Notice of Intent dated 4/14/2011 and approved on 04/27/2011. Cleanout to 13,807'. Set 5" pkr @ 10,807', test to 1000 psi. Swab test. Acidize existing perforations 10,984 - 13,807' with 10,000 gals 15% HCL acid w/ 1000 7/8" OD bioballs. Swab test. Release and LD 5" pkr @ 10,807'. Set 5" RBP @ 10,950', tested to 1000 psi, 1 sack sand on top. Perforate Lower Green River 9,746 - 10,902', 46 intervals, 268', 536' - 10,902' with 10,000 gals 15% HCL acid with 800 7/8" OD bioballs. Swab test. Release and LD 7" pkr @ 9,611'. Return to production from Lower Green River perforations 9,746 - 10,902'. Attachment well chronology 051711 to 060811.

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

NAME (PLEASE PRINT) Deanna Bell	PHONE NUMBER 435 353-5780	TITLE Senior Field Technician
SIGNATURE N/A	DATE 7/1/2011	

BBA LORANGER 6-22A2
OH - Property #: 063051-001
WEST UNRESTRICTED

Well Chronology

District ROCKY MOUNTAIN	County DUCHESNE	Field Name BLUEBELL	Project Group UINTA	State/Province UT
Surface Legal Location 22-1-S 2-W-6	API/UWI 4301331334	Latitude (DMS) 40° 22' 36.77" N	Longitude (DMS) 110° 6' 4.51" E	Ground Elev ... KB - GL (ft) 5,666.00 23.00
Job Category RECOMPLETION		Primary Job Type COMPLETION	Secondary Job Type ADD PAY	
Job Start Date 5/17/2011 13:00	Job End Date 6/8/2011 10:30	AFE Number 160207	Total AFE + Sup Amount 312,000	

Contractor, Rig Name PEAK WELL SERVICE	Rig Number 900	Rig Type WO/COMP/PU-ONSHORE
Job Phase	Act Dur (days)	PI Cum Days ML (days)
Actual Phase Cost	Planned Likely Phase Cost	Cost Var ML

Report # 1	Report Start Date 5/18/2011 13:00	Report End Date 5/19/2011 06:00	Daily Cost 3,404	Cum Cost To Date 3,404	Depth End (ftKB) 0.0
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Time Log Summary
ROAD RIG FROM 2-8 B1 TO 6-22 A2 - SLID ROTAFLEX - MIRU - PUMPED 100 BBLs DWN CSG - 50 BBLs DWN SIDE STRING - TESTED TBG TO 1000 PSI NO BLEAD OFF - UNSEAT PUMP WHILE PUMPING DWN CSG W/ 80 BBLs TPW - FLUSHED TBG W/ 50 BBLs TPW - POOH W/ 121 1" RODS - 119 7/8" RODS - PU POLISH ROD - FLUSHED RODS W/ 45 BBLs TPW - SHUT IN WELL FOR NIGHT - NEXT DAY FINISH POOH W/ RODS & TBG .

EOP @ 5900'

SHUT DOWN - 700 - 19

Report # 2	Report Start Date 5/19/2011 06:00	Report End Date 5/20/2011 06:00	Daily Cost 8,619	Cum Cost To Date 12,023	Depth End (ftKB) 0.0
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Time Log Summary
CREW TRAVEL - SAFETY MEETING - PINCH POINTS
PUMPED 60 BBLs HOT TPW DWN TBG - FINISHED POOH W/ 55 SLK 7/8" RODS - 182 SLK & W/G 3/4" RODS - PULL ROD ON PUMP STUCK OPEN - LD PUMP & DIP TUBE - ND WELLHEAD - X-O EQUIPMENT TO 1.9" - NU BOP - RD FLOOR & TONGS - POOH W/ 202 JTS 1.9" 10RD TBG - RU FLOOR & TONGS - ND BOP - PU ON DONUT - NU BOP - RD FLOOR & TONGS - UNSET 5" TAC - POOH W/ 205 JTS 2 7/8" EUE TBG - 7" CIRC SHOE - 176 JTS 2 7/8" EUE TBG - PSN - 10' PERF SUB - 1 JT 2 7/8" EUE TBG - 5" TAC - 2 3/8" BULL PLUG - UNLOADED TBG ONTO PIPERACKS - SHUT IN WELL FOR NIGHT - NEXT DAY RIH W/ 6 1/4" CONE BIT .

SHUT DOWN - 500
 BBLs PUMPED - 10 - 24

Report # 3	Report Start Date 5/20/2011 06:00	Report End Date 5/21/2011 06:00	Daily Cost 6,653	Cum Cost To Date 18,676	Depth End (ftKB) 0.0
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Time Log Summary
CREW TRAVEL - SAFETY MEETING - RIH W/ TBG
SICP - 175#
BLEAD WELL DWN - RIH 6 1/4" BIT TALLY 330 JTS 2 7/8" EUE TBG TAG UP ON 5"LT @ 10392'- POOH W/ 330 JTS 2 7/8" EUE TBG - LD 6 1/4" BIT - RIH W/ 4 1/8" BIT - 381 JTS 2 7/8" EUE TBG OUT OF DERRICK - TALLIED PU 58 JTS 2 7/8" EUE TBG TAG UP @ 13807'- HAD 43' OF PERFS COVERD & 248' TO PBTD POOH ABOVE 5" LT W/ 111 JTS 2 7/8" EUE TBG TO 10340'- SHUT IN WELL FOR WEEKEND - NEXT WORKING DAY CLEAN OUT OR POOH W/ BIT.
 EOT @ 10340'
 SHUT DOWN - 900 - 24

Report # 4	Report Start Date 5/23/2011 06:00	Report End Date 5/24/2011 06:00	Daily Cost 12,553	Cum Cost To Date 31,228	Depth End (ftKB) 0.0
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Time Log Summary
CREW TRAVEL - SAFETY MEETING - PMPING HOT WTR
SICP - 140# SITP - 140#
BLEAD WELL DWN - RIH W/ 18 JTS 2 7/8" EUE TBG TO 10905'- FLUSHED TBG W/ 60 BBLs HOT TPW - POOH W/ 346 JTS 2 7/8" EUE TBG - LD 4 1/8" BIT - RU HYDROTESTER - RIH W/ 5" PKR - 388 JTS 2 7/8" EUE TBG TO 12221'- TO MAKE SURE ALL PORDUCTION TBG GOT TESTED - RD HYDROTESTER - POOH W/ 62 JTS 2 7/8" EUE TBG TO GET ABOVE 5"LT FOR NIGHT - SHUT IN WELL FOR NIGHT - NEXT DAY RIH W/ JTS 2 7/8" EUE TBG SET PKR TEST CSG - ACIDIZE OLD PERFS.
 EOT @ 10278'
 SHUT DOWN - 700 - 24

**BBA LORANGER 6-22A2**
OH - Property #: 063051-001**WEST UNRESTRICTED****Well Chronology**

District ROCKY MOUNTAIN	County DUCHESNE	Field Name BLUEBELL	Project Group UINTA	State/Province UT			
Surface Legal Location 22-1-S 2-W-6	API/UWI 4301331334	Latitude (DMS) 40° 22' 36.77" N	Longitude (DMS) 110° 6' 4.51" E	Ground Elev ... 5,666.00	KB - GL (ft) 23.00	Orig KB Elev (ft) 5,689.00	TH Elev (ft) 5,666.00

Report # 5

Report Start Date 5/24/2011 06:00	Report End Date 5/25/2011 06:00	Daily Cost 47,160	Cum Cost To Date 78,388	Depth End (ftKB) 0.0
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Time Log Summary

CREW TRAVEL - SAFETY MEETING - PUMPING ACID
SICP - 120# SITP - 135#
BLEAD WELL DWN - RIH W/ 17 JTS 2 7/8" EUE TBG - SET 5" PKR @ 10807'- FILLED CSG W/ 285 BBLs TPW TESTED 1000 PSI - HELD FOR 10 MINUTES
- NO BLEAD OFF - RU TO SWAB TIGHED NEW ROPE SOCKET ON SANDLINE - RIH W/ SANDLINE TAG FLUID @ 9100' MADE 6 SWAB RUNS -
RECOVERD 22 BBLs - 15% OIL - 85% WTR - ALOT OF GAS - TBG SWAB DRY - LD SWAB EQUIPMENT - RU HALLIBURTON - PUMPED 10,000 GALLON
ACID FRAC - WELL WENT ON VACCUM - RD HALLIBURTON - SHUT IN WELL FOR NIGHT - NEXT DAY SWAB .

EOT @ 10807'
SWHUT DOWN - 800 - 24

Report # 6

Report Start Date 5/25/2011 06:00	Report End Date 5/26/2011 06:00	Daily Cost 6,234	Cum Cost To Date 84,622	Depth End (ftKB) 0.0
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Time Log Summary

CREW TRAVEL - SAFETY MEETING - SWABBING
SITP - 690# GAS
BLEAD DWN WELL - RU SWAB EQUIPMENT - RIH W/ SANDLINE TAG @ 8200' MADE 20 SWAB RUNS - RECOVERD 101 BBLs - ENDING FLUID LEVEL
9700'- 70% WTR - 30% OIL - ALOT OF GAS - ENDING PH 4 - LD CLEANED UP SWAB EQUIPMENT - SHUT IN WELL FOR NIGHT - NEXT DAY SWAB .

EOT @ 10807'
BBLs RECOVERD - 101
ENDING PH4
SHUT DOWN - 600 - 24

Report # 7

Report Start Date 5/26/2011 06:00	Report End Date 5/27/2011 06:00	Daily Cost 6,498	Cum Cost To Date 91,120	Depth End (ftKB) 0.0
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Time Log Summary

CREW TRAVEL - SAFETY MEETING - SWABBING ACID
SITP - 700#
BLEAD WELL DWN - RU SWAB EQUIPMENT - RIH W/ SANDLINE TAG FLUID @ 9000' MADE 12 SWAB RUNS - RECOVERD 66 BBLs - ENDING FLUID
LEVEL @ 9700'- ENDING PH5 - RD SWAB EQUIPMENT - PUMPED 90 BBLs TPW DWN TBG - RELEASED 5" PKR FROM 10807'
POOH W/ 273 JTS 2 7/8" EUE TBG - LEFT 70 JTS IN HOLE FOR KILL STRING - SHUT IN WELL FOR NIGHT - NEXT DAY POOH - RIH W/ 5"RBP.

EOT @ 2184'
SHUT DOWN - 430
BBLs PUMPED - 90
BBLs RECOVERD - 66
20% OIL - 80% WTR - ALOT OF GAS - 24

Report # 8

Report Start Date 5/27/2011 06:00	Report End Date 5/28/2011 06:00	Daily Cost 10,830	Cum Cost To Date 101,950	Depth End (ftKB) 0.0
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Time Log Summary

CREW TRAVEL - SAFETY MEETING - PINCH POINTS
SICP - 450# SITP - 375#
BLEAD WELL DWN - POOH W/ 75 JTS 2 7/8" EUE TBG LD 5" PKR - RIH W/ 5" RBP - 348 JTS 2 7/8" EUE TBG - SET 5" RBP @ 10950'- FILLED CSG W/
345 BBLs TPW - CIRCULATED OIL OUT W/ 120 BBLs TPW - TESTED 1000 PSI FOR 10 MINUTES NO BLEAD OFF - RU HOTOILER - FLUSHED TBG W/
45 BBLs - POOH W/ 44 JTS TO 9497' DUMPED 1 SK OF SAND - PUMPED 60 BBLs - WAITED 45 MINUTES BEFORE RIH W/ 44 JTS TO MAKE SURE NO
SAND BRIDGE - POOH W/ 348 JTS 2 7/8" EUE TBG - LD ON & OFF TOOL - FLUSHED WERE NEEDED W/ 80 BBLs DWN TBG - SHUT IN WELL FOR
WEEKEND - NEXT WORKING DAY PERFORATE .

SHUT DOWN - 700
BBLs PUMPED - 530 - 24



BBA LORANGER 6-22A2
OH - Property #: 063051-001

WEST UNRESTRICTED

Well Chronology

District ROCKY MOUNTAIN	County DUCHESNE	Field Name BLUEBELL	Project Group UINTA	State/Province UT
Surface Legal Location 22-1-S 2-W-6	API/UWI 4301331334	Latitude (DMS) 40° 22' 36.77" N	Longitude (DMS) 110° 6' 4.51" E	Ground Elev ... 5,666.00
			KB - GL (ft) 23.00	Orig KB Elev (ft) 5,689.00
				TH Elev (ft) 5,666.00

Report # 9				
Report Start Date 5/31/2011 06:00	Report End Date 6/1/2011 06:00	Daily Cost 30,275	Cum Cost To Date 132,225	Depth End (ftKB) 0.0

Time Log Summary
 CREW TRAVEL - SAFETY MEETING - WIRELINING
 RU PERFORATORS - RIH PERFORATED FROM 9746' TO 10902'- RD PERFORATORS - RIH W/ 60 JTS 2 7/8" EUE TBG - SHUT IN WELL FOR NIGHT - NEXT DAY POOH W/ KILL STRING - RIH W/ 7" PKR HYDROTESTING.
 EOT @ 1920'
 SHUT DOWN - 600 - 24

Report # 10				
Report Start Date 6/1/2011 06:00	Report End Date 6/2/2011 06:00	Daily Cost 10,077	Cum Cost To Date 142,302	Depth End (ftKB) 0.0

Time Log Summary
 CREW TRAVEL - SAFETY MEETING - HYDROTESTING
 SICP - 150# SITP - 150#
 BLEAD WELL DWN - FLUSHED TBG W/ 30 BBLS HOT TPW - POOH W/ 60 JTS 2 7/8" EUE TBG - RU HYDROTESTER - RIH W/ 7" PKR - PSN - 305 JTS 2 7/8" EUE TBG - TESTING TO 9000 PSI - SET 7" PKR @ 9611'
 FILLED CSG W/ 35 BBLS TPW - TESTED 1000 PSI - HELD FOR 10 MINUTES NO BLEAD OFF - RU SWAB EQUIPMENT - RIH W/ SANDLINE TAG FLUID @ 700' MADE 11 SWAB RUNS RECOVERED 71 BBLS - 10% OIL
 90% WTR - ENDING FLUID LEVEL 9000' - SHUT IN WELL FOR NIGHT - NEXT DAY SWAB & ACIDIZE.
 EOT @ 9611'
 SHUT DOWN - 530
 BBLS RECOVERED - 71 - 24

Report # 11				
Report Start Date 6/2/2011 06:00	Report End Date 6/3/2011 06:00	Daily Cost 42,864	Cum Cost To Date 185,166	Depth End (ftKB) 0.0

Time Log Summary
 CREW TRAVEL - SAFETY MEETING - SWABBING
 SITP - 400# SICP - 75#
 BLEAD WELL DWN - RIH W/ SANDLINE TAG FLUID @ 2400'- MADE 9 RUNS RECOVERD 67 BBLS - ENDING FLUID LEVEL @ 7400'- 10% OIL - 90% WTR - LITTLE GAS - RD SWAB EQUIPMENT - RU HALLIBURTON - PUMPED 10,000 GALLON ACID FRAC - ISIP 0 - RD HALLIBURTON - RU TO SWAB - RIH W/ SANDLINE TAG FLUID @ 4600'- MADE 15 SWAB RUNS RECOVERD 86 BBLS - ENDING FLUID LEVEL @ 2700'- 5% OIL - 95% WTR - LITTLE GAS - PH5 - RD SWAB EQUIPMENT - CHANGED OIL SAVERS RUBBERS FOR MORNING - SHUT IN WELL FOR NIGHT - NEXT DAY SWAB.
 EOT @ 9611'
 SHUT DOWN - 600
 BBLS RECOVERD - 153 - 24

Report # 12				
Report Start Date 6/3/2011 06:00	Report End Date 6/4/2011 06:00	Daily Cost 6,650	Cum Cost To Date 191,816	Depth End (ftKB) 0.0

Time Log Summary
 CREW TRAVEL - SAFETY MEETING - SWABBING
 SITP - 400#
 BLEAD DWN WELL - RU SWAB EQUIPMENT - RIH W/ SANDLINE TAG FLUID @ 5600'- MADE 32 SWAB RUNS RECOVERD 226 BBLS - 35% OIL - 65% WTR - ALOT OF GAS - ENDING PH5 - ENDING FLUID LEVEL @ 4500'- SHUT IN WELL FOR WEEKEND - NEXT WORKING DAY CHECK FLUID LEVEL - POOH W/ 7" PKR .
 EOT @ 9611'
 SHUT DOWN - 600
 BBLS RECOVERD - 226 - 24

BBA LORANGER 6-22A2
OH - Property #: 063051-001**WEST UNRESTRICTED****Well Chronology**

District ROCKY MOUNTAIN	County DUCHESNE	Field Name BLUEBELL	Project Group UINTA	State/Province UT			
Surface Legal Location 22-1-S-2-W-6	API/UWI 4301331334	Latitude (DMS) 40° 22' 36.77" N	Longitude (DMS) 110° 6' 4.51" E	Ground Elev ... 5,666.00	KB - GL (ft) 23.00	Orig KB Elev (ft) 5,689.00	TH Elev (ft) 5,666.00

Report # 13

Report Start Date 6/6/2011 06:00	Report End Date 6/7/2011 06:00	Daily Cost 21,770	Cum Cost To Date 213,586	Depth End (ftKB) 0.0
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Time Log Summary

CREW TRAVEL - SAFETY MEETING - SWABBING

SITP - 600#

BLEAD DWN TBG - RU SWAB EQUIPMENT - RIH W/ SANDLINE TAG @ 4000' - MADE 1 SWAB RUN - RECOVERED 6 BBLS - RD SWAB EQUIPMENT - RELEASED 7" PKR - RIH W/ 22 JTS AT A TIME TO LT TO GET TO ARE WORKSTRING IN TBG BOARD - FLUSHED 40 BBLS TPW DWN TBG - LD 55 JTS WORK STRING TBG - POOH W/ 337 JTS 2 7/8" EUE TBG TO DERRICK - LD 44 JTS 2 7/8" EUE TBG - LD 7" PKR - FLUSHED WERE NEEDED W/ 50 BBLS DWN TBG - 50 BBLS DWN CSG WHILE POOH W/ TBG - STEAMED OFF WORK AREA - RU HYDROTESTER - RIH W/ 2 3/8" BULL PLUG - 5" TAC - 2 JTS 2 7/8" EUE TBG - 10' X 2 7/8" PERF SUB PSN - 80 JTS 2 7/8" EUE TBG - SHUT IN WELL FOR NIGHT NEXT DAY FINISH RIH HYDROTESTING LAND WELL .

EOT @ 2596'

SHUT DOWN - 630

BBLS PUMPED - 140 - 24

Report # 14

Report Start Date 6/7/2011 06:00	Report End Date 6/8/2011 06:00	Daily Cost 12,018	Cum Cost To Date 225,604	Depth End (ftKB) 0.0
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Time Log Summary

CREW TRAVEL - SAFETY MEETING - HYDROTESTING

SITP - 120

SICP - 160

BLEAD WELL DWN - RIH W/ 52 JTS 2 7/8" EUE TBG - 7" CIRC SHOE - 205 JTS 2 7/8" EUE TBG - RD HYDROTESTER - BLEW UP JT # 240 - RD FLOOR - ND BOP - LANDED TAC IN 20,000 TENSION - NU BOP - RU FLOOR - X-O EQUIPMENT TO 1.9" - RIH W/ 1.9" 10RD STINGER - 202 JTS 1.9" 10RD TBG - LANDED SIDE STRING W/ 7,000 DWN ON SHOE - RD FLOOR - ND BOP - NU WELLHEAD - X-O EQUIPMENT TO RODS - DUMPED PELLETS - FLUSHED TBG W/ 70 BBLS TPW - STEAMED OFF WORK AREA - RACKED IN RIG PUMP LINES - RIH W/ 2 1/2" X 1 3/4" X 37" PUMP - 2 DIP TUBES - 166 3/4" RODS - 140 7/8" RODS - 120 1" RODS - LD 15 3/4" RODS - 34 7/8" RODS - PU POLISHROD - SHUT IN WELL FOR NIGHT - NEXT DAY FILL & TEST - RIG DWN. SPACED OUT W/ 8'-4" X 1" SUBS

1" - 8W/G - 109SLK - 2925'

7/8" - 140 SLK - 3500'

3/4" - 151 SLK - 15 W/G - 4150'

CIRC SHOE@6478

PSN@10637

TAC@10710

EOT@10715 - 24

SHUT DOWN - 730

Report # 15

Report Start Date 6/8/2011 06:00	Report End Date 6/9/2011 10:30	Daily Cost 3,145	Cum Cost To Date 228,749	Depth End (ftKB) 0.0
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Time Log Summary

CREW TRAVEL - SAFETY MEETING - RIG DWN

STEAMED OFF ROTAFLEX - FILLED TBG W/ 65 BBLS TPW - TESTED 1000 PSI - RIG DWN - SLID UNIT - UNIT WOULDNT ROLL DWN - LEFT ON TOAD STOOL STEAMED OIL INTO CELLAR - LOADED TRAILER & DOG HOUSE - CLEANED UP LOCATION.

LEFT LOCATION @ 1030AM - 18.5

Report # 16

Report Start Date 6/9/2011 10:30	Report End Date 6/10/2011 10:30	Daily Cost 0	Cum Cost To Date 228,749	Depth End (ftKB) 0.0
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Time Log Summary

16 HR PROD: 87 OIL, 66 WTR, 52 MCF. 8 HRS DOWN, PUMPING UNIT PROBLEMS - 24

Report # 17

Report Start Date 6/12/2011 10:30	Report End Date 6/13/2011 06:00	Daily Cost -10,659	Cum Cost To Date 218,090	Depth End (ftKB) 0.0
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Time Log Summary

6/10/11 PROD-151 BOPD, 196 BWPD, 79 MCFD,

6/11/11 PROD-122 BOPD, 195 BWPD, 79 MCFD,

6/12/11 PROD-98 BOPD, 350 BWPD, 79 MCFD - 24

Report # 18

Report Start Date 6/13/2011 06:00	Report End Date 6/14/2011 06:00	Daily Cost 0	Cum Cost To Date 218,090	Depth End (ftKB) 0.0
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Time Log Summary

24 HR PRODUCTION- 76 BOPD, 309 BWPD, 79 MCFD - 24

Report # 19

Report Start Date 6/14/2011 06:00	Report End Date 6/15/2011 06:00	Daily Cost 0	Cum Cost To Date 218,090	Depth End (ftKB) 0.0
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Time Log Summary

24 HR PRODUCTION- 73 BOPD, 345 BWPD, 79 MCFD - 24

BBA LORANGER 6-22A2
OH - Property #: 063051-001**WEST UNRESTRICTED****Well Chronology**

District	County	Field Name	Project Group	State/Province			
ROCKY MOUNTAIN	DUCHESNE	BLUEBELL	UINTA	UT			
Surface Legal Location	API/UWI	Latitude (DMS)	Longitude (DMS)	Ground Elev ...	KB - GL (ft)	Orig KB Elev (ft)	TH Elev (ft)
22-1-S 2-W-6	4301331334	40° 22' 36.77" N	110° 6' 4.51" E	5,666.00	23.00	5,689.00	5,666.00
Report # 20							
Report Start Date	Report End Date	Daily Cost	Cum Cost To Date	Depth End (ftKB)			
6/15/2011 06:00	6/16/2011 06:00	0	218,090	0.0			
Time Log Summary							
24 HOUR PRODUCTION							
06-15-2011							
76 - BOPD, 348 - BWPD, 79 - MCFD - 24							
Report # 21							
Report Start Date	Report End Date	Daily Cost	Cum Cost To Date	Depth End (ftKB)			
6/16/2011 06:00	6/17/2011 06:00	104	218,194	0.0			
Time Log Summary							
24 HOUR PRODUCTION							
06-16-2011							
69 - BOPD, 338 - BWPD, 79 - MCFD - 24							

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

ENTITY ACTION FORM

Operator: DEVON ENERGY CORPORATION Operator Account Number: N 1275
 Address: P.O. BOX 290
city NEOLA
state UT zip 84053 Phone Number: (435) 353-5784

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301331334	LORANGER 6-22A2		SWSW	22	1S	2W	DUCHESNE
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
E	11335	11335				6/8/2011	
Comments: RECOMPLETION TO LOWER GREEN RIVER							7/20/11

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

GEORGE GURR

Name (Please Print)

Signature

PRODUCTION FOREMAN

Title

Date

RECEIVED
JUL 07 2011

7/7/11

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:

8/29/2014

FROM: (Old Operator): DEVON ENERGY PRODUCTION COMPANY L.P. N1275 333 WEST SHERIDAN AVENUE OKLAHOMA CITY OK 73102-5015	TO: (New Operator): LINN OPERATING INC N4115 1999 BROADWAY STE 3700 DENVER CO 80202 303-999-4275
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WELL NAME	CA No.	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: 9/16/2014
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/16/2014
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 10/8/2014
- Is the new operator registered in the State of Utah: Business Number: 9031632-0143
- (R649-9-2) Waste Management Plan has been received on: Yes
- Inspections of LA PA state/fee well sites complete on: N/A
- Reports current for Production/Disposition & Sundries on: 10/8/2014
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM NOT YET BIA NOT YET
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: N/A
- 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: 9/24/2014

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 10/8/2014
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 10/8/2014
- Bond information entered in RBDMS on: 10/8/2014
- Fee/State wells attached to bond in RBDMS on: 10/8/2014
- Injection Projects to new operator in RBDMS on: N/A
- Receipt of Acceptance of Drilling Procedures for APD/New on: 10/8/2014
- Surface Agreement Sundry from **NEW** operator on Fee Surface wells received on: 9/16/2014

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: NMB000501
- Indian well(s) covered by Bond Number: NMB000501
- (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number LPM9149893
- 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: 10/8/2014

COMMENTS:

Devon Energy Production Company, L.P. N1275 to Linn Operating, Inc N4115
Effective 8/29/2014

Well Name	Section	Township	Range AP	API Number	Entity	Mineral Lease	Well Type	Well Status
SWD 4-11A2	11	010S	020W	4301320255	99990	Fee	WD	A
VIRGIL MECHAM 1-11A2	11	010S	020W	4301330009	5760	Fee	WD	A
1-3A2	3	010S	020W	4301330021	99990	Fee	WD	A
BLUEBELL 2-28A2	28	010S	020W	4301330346	99990	Fee	WD	A
SALERATUS 2-17C5	17	030S	050W	4301330388	99990	Fee	WD	A
CENTRAL BLUEBELL 2-26A2	26	010S	020W	4301330389	99990	Fee	WD	A
BALLARD 2-15B1	15	020S	010W	4304732351	11476	Fee	WD	A
GALLOWAY #3-14B2	14	020S	020W	4301351741		Fee	OW	APD
GALLOWAY #3-12B2	12	020S	020W	4301351742		Fee	OW	APD
GALLOWAY 4-14B2	14	020S	020W	4301351818		Fee	OW	APD
MORRIS #3-8B1	8	020S	010W	4301351836		State	OW	APD
FRITZ #3-24A2	24	010S	020W	4301351837		Fee	OW	APD
GALLOWAY #2-14B2	14	020S	020W	4301351739	19044	Fee	OW	DRL
EMERALD 2-32A1	32	010S	010W	4301350059	17980	Fee	OW	OPS
CLYDE MURRAY 1-2A2	2	010S	020W	4301330005	5876	Fee	OW	P
VICTOR C BROWN 1-4A2	4	010S	020W	4301330011	5780	Fee	OW	P
DOUG BROWN 2-4A2	4	010S	020W	4301330017	5840	Fee	OW	P
L BOREN U 3-15A2	15	010S	020W	4301330086	5755	Fee	OW	P
LAMICQ-URTY U 3-17A2	17	010S	020W	4301330099	5745	Fee	OW	P
L BOREN U 5-22A2	22	010S	020W	4301330107	5900	Fee	OW	P
L BOREN U 4-23A2	23	010S	020W	4301330115	5905	Fee	OW	P
TOMLINSON FED 1-25A2	25	010S	020W	4301330120	5535	Federal	OW	P
WOODWARD 1-21A2	21	010S	020W	4301330130	5665	Fee	OW	P
LAMICQ 1-20A2	20	010S	020W	4301330133	5400	Fee	GW	P
L RBRTSN ST 1-1B2	1	020S	020W	4301330200	5410	State	OW	P
SMITH ALBERT 1-8C5	8	030S	050W	4301330245	5490	Fee	OW	P
FRESTON ST 1-8B1	8	020S	010W	4301330294	5345	Fee	OW	P
GEORGE MURRAY 1-16B1	16	020S	010W	4301330297	5950	Fee	OW	P
LAMICQ-URTY U 4-5A2	5	010S	020W	4301330347	5845	Fee	OW	P
H G COLTHARP 1-15B1	15	020S	010W	4301330359	5945	Fee	OW	P
STATE 3-18A1	18	010S	010W	4301330369	5810	Fee	OW	P
LAMICQ 2-6B1	6	020S	010W	4301330809	2301	Fee	OW	P
DILLMAN 2-28A2	28	010S	020W	4301330821	5666	Fee	OW	P
HAMBLIN 2-26-A2	26	010S	020W	4301330903	5361	Fee	OW	P
JOHN 2-3-B2	3	020S	020W	4301330975	5387	Fee	OW	P
LAMICQ-ROBERTSON ST 2-1B2	1	020S	020W	4301330995	5412	Fee	OW	P
UTE TRIBAL 2-7A2	7	010S	020W	4301331009	5836	Indian	OW	P
HATCH 2-3B1	3	020S	010W	4301331147	10615	Fee	OW	P
NORLING 2-9B1	9	020S	010W	4301331151	10616	Fee	OW	P
SHAW 2-27A2	27	010S	020W	4301331184	10753	Fee	OW	P
LAMICQ-URRITY 4-17A2	17	010S	020W	4301331190	10764	Fee	OW	P
LAMICQ 2-20A2	20	010S	020W	4301331191	10794	Fee	OW	P
FRESTON 2-8B1	8	020S	010W	4301331203	10851	Fee	OW	P
WISSE 3-35A2	35	010S	020W	4301331215	10925	Fee	OW	P
MECCA 2-8A2	8	010S	020W	4301331231	10981	Fee	OW	P
SWYKES 2-21A2	21	010S	020W	4301331235	10998	Fee	OW	P
SHERMAN 2-12B2	12	020S	020W	4301331238	11009	Fee	OW	P
DUNCAN 4-2A2	2	010S	020W	4301331276	11258	Fee	GW	P
HAMBLIN 3-9A2	9	010S	020W	4301331278	11094	Fee	GW	P
BAR-F 2-5B1	5	020S	010W	4301331286	11113	Fee	OW	P
SMITH 2-9C5	9	030S	050W	4301331321	11245	Fee	OW	P
LORANGER 2-24A2	24	010S	020W	4301331322	11244	Fee	OW	P
UTE 2-6B3	6	020S	030W	4301331325	11446	Indian	OW	P
MCELPRANG 2-30A1	30	010S	010W	4301331326	11252	Fee	OW	P

Devon Energy Production Company, L.P. N1275 to Linn Operating, Inc N4115
 Effective 8/29/2014

Well Name	Section	Township	Range AP	API Number	Entity	Mineral Lease	Well Type	Well Status
SMITH 2-7C5	7	030S	050W	4301331327	11324	Indian	OW	P
SMITH 2-18C5	18	030S	050W	4301331328	11336	Indian	OW	P
UTE 2-24A3	24	010S	030W	4301331329	11339	Indian	OW	P
UTE 5-19A2	19	010S	020W	4301331330	11277	Indian	OW	P
EDWARDS 3-10B1	10	020S	010W	4301331332	11264	Fee	OW	P
SUNDANCE 4-15A2	15	010S	020W	4301331333	11269	Fee	OW	P
LORANGER 6-22A2	22	010S	020W	4301331334	11335	Fee	OW	P
COX 2-36A2	36	010S	020W	4301331335	11330	Fee	OW	P
SMITH 2-6C5	6	030S	050W	4301331338	11367	Indian	OW	P
FRESTON 2-7B1	7	020S	010W	4301331341	11338	Fee	OW	P
PEARSON 2-11B2	11	020S	020W	4301331356	11359	Fee	OW	P
CHAPMAN 2-4B2	4	020S	020W	4301331378	11485	Fee	OW	P
LAMB 2-16A2	16	010S	020W	4301331390	11487	Fee	OW	P
LABRUM 2-23A2	23	010S	020W	4301331393	11514	Fee	OW	P
POWELL 2-16B1	16	020S	010W	4301331820	12342	Fee	OW	P
BOWMAN 5-5A2	5	010S	020W	4301332202	13043	Fee	OW	P
BOREN 4-9A2	9	010S	020W	4301332203	13079	Fee	OW	P
BLANCHARD 3-10A2	10	010S	020W	4301332223	13149	Fee	OW	P
SQUIRES 3-8A2	8	010S	020W	4301332227	13176	Fee	OW	P
BROWN 3-4A2	4	010S	020W	4301332684	14673	Fee	OW	P
GALLOWAY 3-11B2	11	020S	020W	4301334304	18527	Fee	OW	P
OWL AND THE HAWK 3-9C5	9	030S	050W	4301351214	18649	Fee	OW	P
Bingham #3-4B1	4	020S	010W	4301351464	18825	Fee	OW	P
RED MOUNTAIN 3-5B1	5	020S	010W	4301351632	18954	Fee	OW	P
MECHAM #3-1B2	1	020S	020W	4301351844	19082	State	OW	P
MIKE AND SHELLEY #3-4B2	4	020S	020W	4301351845	19083	Fee	OW	P
RBRTSN UTE ST 1-12B1	12	020S	010W	4304730164	5475	Fee	OW	P
MAY UTE FED 1-13B1	13	020S	010W	4304730176	5435	Fee	OW	P
COOK 1-26B1	26	020S	010W	4304731981	11212	Fee	OW	P
CHRISTIANSEN 2-12B1	12	020S	010W	4304732178	11350	Fee	OW	P
RICH 2-13B1	13	020S	010W	4304732744	12046	Fee	OW	P
THOMAS 4-10B1	10	020S	010W	4304734080	13284	Fee	OW	P
HAMAKER 3-12B1	12	020S	010W	4304752294	18650	Fee	OW	P
BETTS 2-26B1	26	020S	010W	4304752435	18698	Fee	OW	P
STATE 1-10A2 (3-10C)	10	010S	020W	4301330006	5860	State	GW	S
L BOREN U 6-16A2	16	010S	020W	4301330123	5750	Fee	OW	S
UTE TRIBAL 1-6B3	6	020S	030W	4301330136	5705	Indian	OW	S
MAUREL TAYLOR FEE 1-36A2	36	010S	020W	4301330143	5525	Fee	OW	S
CAMPBELL UTE ST 1-7B1	7	020S	010W	4301330236	5295	Indian	OW	S
D L GALLOWAY 1-14B2	14	020S	020W	4301330564	5965	Fee	OW	S
MARK 2-25A2	25	010S	020W	4301331232	10986	Fee	OW	S
MITCHELL 2-4B1	4	020S	010W	4301331317	11231	Fee	OW	S

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>See Attached Well List</u>			5. LEASE DESIGNATION AND SERIAL NUMBER: See Attached Well List
2. NAME OF OPERATOR: LINN OPERATING, INC <u>N4115</u>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1999 Broadway, Suite 3700 CITY Denver STATE CO ZIP 80202 PHONE NUMBER: (303) 999-4275			7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: COUNTY: <u>Duchsene/Uintah</u>			8. WELL NAME and NUMBER: See Attached Well List
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: UTAH			9. API NUMBER:
10. FIELD AND POOL, OR WILDCAT: Bluebell/Altamont			

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

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

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

Effective 08/29/2014, Change of Operator from Devon Energy Production Company, LP, to Linn Operating, Inc. is responsible under the terms and conditions of the leases for operations conducted on the leased lands or a portion thereof under their blanket state bond number LPM9149893.

Attached is a list of wells that are associated with this Change of Operator.

Devon Energy Production Company, LP N1275
333 West Sheridan Avenue
Oklahoma City, OK 73102-5015



John D. Raines
Vice President

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NAME (PLEASE PRINT) <u>Russell des Cognets II</u>	TITLE <u>Asset Manager</u>
SIGNATURE <u>Russell des Cognets</u>	DATE <u>9/8/14</u>

(This space for State use only)

APPROVED

OCT 08 2014

DIV. OIL GAS & MINING

BY: Rachael Medina

Devon Energy Production Company, LP
Existing Well List for State/Fee/Indian Leases

Well Name	API #	Legal Location	Producing Status	Well Type	Lease Type	Field	State	County
BAR F 2-5B1	430133128600	005-002S-001W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
BINGHAM 3-4B1	430135146400	004-002S-001W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
BLANCHARD 3-10A2	430133222300	010-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
BOREN 1-14A2	430133003500	014-001S-002W	Shut-In	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
BOREN 3-11A2	430133119200	011-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
BOREN 3-15A2	430133008600	015-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
BOREN 4-23A2	430133011500	023-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
BOREN 4-9A2	430133220300	009-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
BOREN 5-22A2	430133010700	022-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
BOREN 6-16A2	430133012300	016-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
BOWMAN 5-5A2	430133220200	005-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
BROWN DOUG 2-4A2	430133001700	004-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
BROWN VICTOR C 1-4A2	430133001100	004-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
BROWN 3-4A2	430133268400	004-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
CAMPBELL UTE ST 1-7B1	430133023600	007-002S-001W	Shut-In	OIL	INDIAN	BLUEBELL ALTAMONT	UT	DUCHESNE
CHAPMAN 2-4B2	430133137800	004-002S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
CLYDE MURRAY 1-2A2	430133000500	002-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
COLTHARP 1-15B1	430133035900	015-002S-001W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
CORNABY 2-14A2 (RECOMP)	430133129900	014-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
COX 2-36A2	430133133500	036-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
DILLMAN 2-28A2	430133082100	028-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
DUNCAN 4-2A2	430133127600	002-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
EDWARDS 3-10B1	430133133200	010-002S-001W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
FRESTON STATE 1-8B1	430133029400	008-002S-001W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
FRESTON 2-7B1	430133134100	007-002S-001W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
FRESTON 2-8B1	430133120300	008-002S-001W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
GALLOWAY 1-14B2	430133056400	014-002S-002W	Shut-In	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
GALLOWAY 3-11B2	430133430400	011-002S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
HAMBLIN 2-26A2	430133090300	026-001S-002W	Shut-In	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
HAMBLIN 3-9A2	430133127800	009-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
HATCH 2-3B1	430133114700	003-002S-001W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
JOHN 2-3B2	430133097500	003-002S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
LABRUM 2-23A2	430133139300	023-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
LAMB 2 16A2	430133139000	016-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
LAMICQ ROBERTSON 1-1B2	430133020000	001-002S-002W	Producing	OIL	STATE	BLUEBELL ALTAMONT	UT	DUCHESNE

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LAMICQ ROBERTSON 2-1B2	430133099500	001-002S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
LAMICQ URRUTY 3-17A2	430133009900	017-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
LAMICQ URRUTY 4-17A2	430133119000	017-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
LAMICQ URRUTY 4-5A2	430133034700	005-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
LAMICQ 1-20A2	430133013300	020-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
LAMICQ 2-20A2	430133119100	020-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
LAMICQ 2-6B1	430133080900	006-002S-001W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
LORANGER 2-24A2	430133132200	024-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
LORANGER 6-22A2	430133133400	022-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
MARK 2 25A2	430133123200	025-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
MCCELPRANG 2-30A1	430133132600	030-001S-001W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
MECCA 2-8A2	430133123100	008-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
MECHAM VIRGIL B 1-11A2 SWD	430133000900	011-001S-002W	Injecting	SWD	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
MECHAM 3-1B2	430135184400	1-2S-2W	Producing	OIL	STATE	BLUEBELL ALTAMONT	UT	DUCHESNE
MIKE AND SHELLEY 3-4B2	430135184500	4-2S-2W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
MITCHELL 2-4B1	430133131700	004-002S-001W	Shut-in	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
MURRAY GEORGE 1-16B1	430133029700	016-002S-001W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
NORLING 2-9B1	430133115100	009-002S-001W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
OWL AND THE HAWK 3-9C5	430135121400	9-003S-005W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
PEARSON 2-11B2	430133135600	011-002S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
POWELL 2 16B1	430133182000	016-002S-001W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
RED MOUNTAIN 3-5B1	430135163200	05-2S-1W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
SHAW 2-27A2	430133118400	027-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
SHERMAN 2-12B2	430133123800	012-002S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
SMITH ALBERT 1-8C5	430133024500	008-003S-005W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
SMITH 2-18C5	430133132800	018-003S-005W	Producing	OIL	INDIAN	BLUEBELL ALTAMONT	UT	DUCHESNE
SMITH 2-6C5	430133133800	006-003S-005W	Producing	OIL	INDIAN	BLUEBELL ALTAMONT	UT	DUCHESNE
SMITH 2-7C5	430133132700	007-003S-005W	Producing	OIL	INDIAN	BLUEBELL ALTAMONT	UT	DUCHESNE
SMITH 2-9C5	430133132100	009-003S-005W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
SQUIRES 3-8A2	430133222700	008-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
STATE 1-10A2	430133000600	010-001S-002W	Producing	OIL	STATE	BLUEBELL ALTAMONT	UT	DUCHESNE
STATE 3-18A1	430133036900	018-001S-001W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
SUNDANCE 4 15A2 (BOREN)	430133133300	015-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
SWD ANDERSON 2-28A2	430133034600	028-001S-002W	Injecting	SWD	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
SWD HAMBLIN 2-26A2	430133038900	026-001S-002W	Injecting	SWD	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
SWD SALERATUS 2-17C5	430133038800	017-003S-005W	Injecting	SWD	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
SWD 1-3A2	430133002100	003-001S-002W	Injecting	SWD	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
SWD 4-11A2	430132025500	011-001S-002W	Injecting	SWD	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE

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SWYKES 2 21A2	430133123500	021-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
TAYLOR MAUREL FEE 1-36A2	430133014300	036-001S-002W	Shut-In	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
TOMLINSON 1 25A2	430133012000	025-001S-002W	Producing	OIL	INDIAN	BLUEBELL ALTAMONT	UT	DUCHESNE
UTE TRIBAL 2-7A2	430133100900	007-001S-002W	Producing	OIL	INDIAN	BLUEBELL ALTAMONT	UT	DUCHESNE
UTE TRIBAL 5-19A2	430133133000	019-001S-002W	Producing	OIL	INDIAN	BLUEBELL ALTAMONT	UT	DUCHESNE
UTE 1-6B3	430133013600	006-002S-003W	Shut-In	OIL	INDIAN	BLUEBELL ALTAMONT	UT	DUCHESNE
UTE 2-24A3	430133132900	024-001S-003W	Producing	OIL	INDIAN	BLUEBELL ALTAMONT	UT	DUCHESNE
UTE 2-6B3	430133132500	006-002S-003W	Producing	OIL	INDIAN	BLUEBELL ALTAMONT	UT	DUCHESNE
WISSE 3-35A2	430133121500	035-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
WOODWARD 1-21A2	430133013000	021-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
BALLARD 2-15B1 SWD	430473235100	015-002S-001W	Injecting	SWD	FEE	BLUEBELL ALTAMONT	UT	UINTAH
BETTS 2-26B1	430475243500	26-2S-1W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	UINTAH
CHRISTENSEN 2-12B1	430473217800	012-002S-001W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	UINTAH
COOK 1-26B1	430473198100	026-002S-001W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	UINTAH
HAMAKER 3-12B1	430475229400	12-2S-1W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	UINTAH
MAY UTE FED 1-13B1	430473017600	013-002S-001W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	UINTAH
RICH 2-13B1	430473274400	013-002S-001W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	UINTAH
ROBERTSON UTE STATE 1-12B1	430473016400	012-002S-001W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	UINTAH
THOMAS 4-10B1	430473408000	010-002S-001W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	UINTAH

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DIV. OF OIL, GAS & MINING

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: See Attached Well List
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>See Attached Well List</u>		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: LINN OPERATING, INC		8. WELL NAME and NUMBER: See Attached Well List
3. ADDRESS OF OPERATOR: 1999 Broadway, Suite 3700 CITY: Denver STATE: CO ZIP: 80202		9. API NUMBER:
PHONE NUMBER: (303) 999-4275		10. FIELD AND POOL, OR WILDCAT: Bluebell/Altamont
4. LOCATION OF WELL FOOTAGES AT SURFACE: _____		COUNTY: Duchsene
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: _____		STATE: UTAH

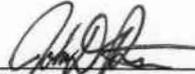
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING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

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

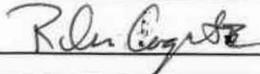
Effective 08/29/2014, Change of Operator from Devon Energy Production Company, LP, to Linn Operating, Inc. is responsible under the terms and conditions of the leases for operations conducted on the leased lands or a portion thereof under their blanket state bond number LPM9149893 .

Attached is a list of Applications for Permit to Drill (APD) that are associated with this Change of Operator.

Devon Energy Production Company, LP
333 West Sheridan Avenue
Oklahoma City, OK 73102-5015



John D. Raines
Vice President

NAME (PLEASE PRINT) <u>Russell des Cognets II</u>	TITLE <u>Asset Manager</u>
SIGNATURE 	DATE <u>9/16/14</u>

(This space for State use only)

APPROVED

OCT 08 2014

DIV. OIL GAS & MINING

BY: Rachael Medina

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SEP 16 2014
DIV. OF OIL, GAS & MINING

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

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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL OIL WELL GAS WELL OTHER _____

8. WELL NAME and NUMBER:
Misc.

2. NAME OF OPERATOR:
LINN OPERATING, INC.

9. API NUMBER:

3. ADDRESS OF OPERATOR: PHONE NUMBER:
1999 Broadway, Ste #3700 Denver CO 80202 (303) 999-4016

10. FIELD AND POOL, OR WILDCAT:
Bluebell

4. LOCATION OF WELL
FOOTAGES AT SURFACE: COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: 14 1S 2W STATE: UTAH

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

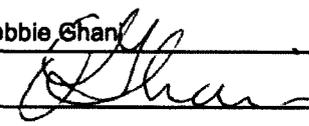
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input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

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

Do not process Change of Operator from Devon Energy Production Company, LP to LINN Operating, Inc. for the following wells.

- 43-013-31192 BOREN 3-11A2 Oil Well Producing BLUEBELL DUCHESNE 1S-2W Sec 11
- 43-013-51846 MIKE AND SHELLEY #4-14A2 Oil Well Approved permit (APD) BLUEBELL DUCHESNE 1S-2W Sec14
- 43-013-31299 CORNABY 2-14A2 Oil Well Producing BLUEBELL DUCHESNE 1S-2W Sec 14
- 43-013-30035 FLY/DIA L BOREN 1-14A2 Oil Well Shut-In BLUEBELL DUCHESNE 1S-2W Sec 14

The Devon transaction to Linn Energy allowed EP Energy to exercise their preferential right to purchase the leases and wells in Sections 11 and 14 of T1S, 2W so EP Energy now owns these wells.

NAME (PLEASE PRINT) Debbie Chan TITLE Reg. Compliance Supervisor
SIGNATURE  DATE 9/23/2014

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SEP 23 2014
Div. of Oil, Gas & Mining

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: LORANGER 6-22A2
2. NAME OF OPERATOR: LINN OPERATING, INC.	9. API NUMBER: 43013313340000
3. ADDRESS OF OPERATOR: Rt. 2 Box 7735 , Roosevelt, UT, 84066	PHONE NUMBER: 435 722-1325 Ext
9. FIELD and POOL or WILDCAT: BLUEBELL	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1082 FSL 1119 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 22 Township: 01.0S Range: 02.0W Meridian: U	COUNTY: DUCHESNE
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/10/2015	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Isolate perms in lower GR"/>

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

Linn Operating, Inc. respectfully requests to Set RBP and Packer to isolate perms in the Lower Green River formation to attempt to reduce water production on the Loranger 6-22A2. Linn Operating, Inc. also requests the sundry be documented as CONFIDENTIAL. Attached to this sundry are the program details and Wellbore Diagram.

Approved by the
September 14, 2015
Oil, Gas and Mining

Date: _____
By: DeKQ

NAME (PLEASE PRINT) Andrea Gurr	PHONE NUMBER 435 722-1325	TITLE Regulatory & Permit Tech
SIGNATURE N/A	DATE 9/8/2015	



LORANGER 6-22A2 REPAIR RP AND WATER ISOLATION

Date: 9/8/2015

WELL HEADER/GENERAL INFORMATION

Well Name	API #	KB	S CSG Shoe	Prod CSG Size	PBTD	EST TOC F/CBL
LORANGER 6-22A2	43013313340000	23'	3519'	7" 23# S-95 & N-80 with 5" 18# P-110 LINER	10,950	400'

NOTE: All depths in program from KB - see attachments for WB Diagram & perf details

SUMMARY OF PROCEDURE GOALS/JUSTIFICATIONS:

Set RBP and Packer to isolate perfs in the Lower Green River formation to attempt to reduce water production.

GENERAL PROPOSED PROCEDURE:

1. MIRU WO Rig.
2. Soft seat pump and test tubing to 3,500 psi
3. POOH with rods/pump
4. NU BOP's test per SOPs
5. POOH with side string and LD side string
6. Unset TAC and POOH with tubing standing back
7. RU Wireline and Run 7" gauge ring/junk basket to liner top at 10,392'
 - a. Confirm that OD of gauge ring is larger than OD of RBP and Packer
8. RIH and set RBP at ~10,300' in 7" casing (~92' above Liner Top)
9. POOH and RD Wireline
10. MU 7" Packer with PSN 2 JTS above on TBG
11. RIH with Packer assembly and set at ~10,080'
 - a. Can't pressure test backside because of existing perfs above Packer set depth
12. RIH with rods/pump and PWOP

PERFS FOR LORANGER 6-22A2

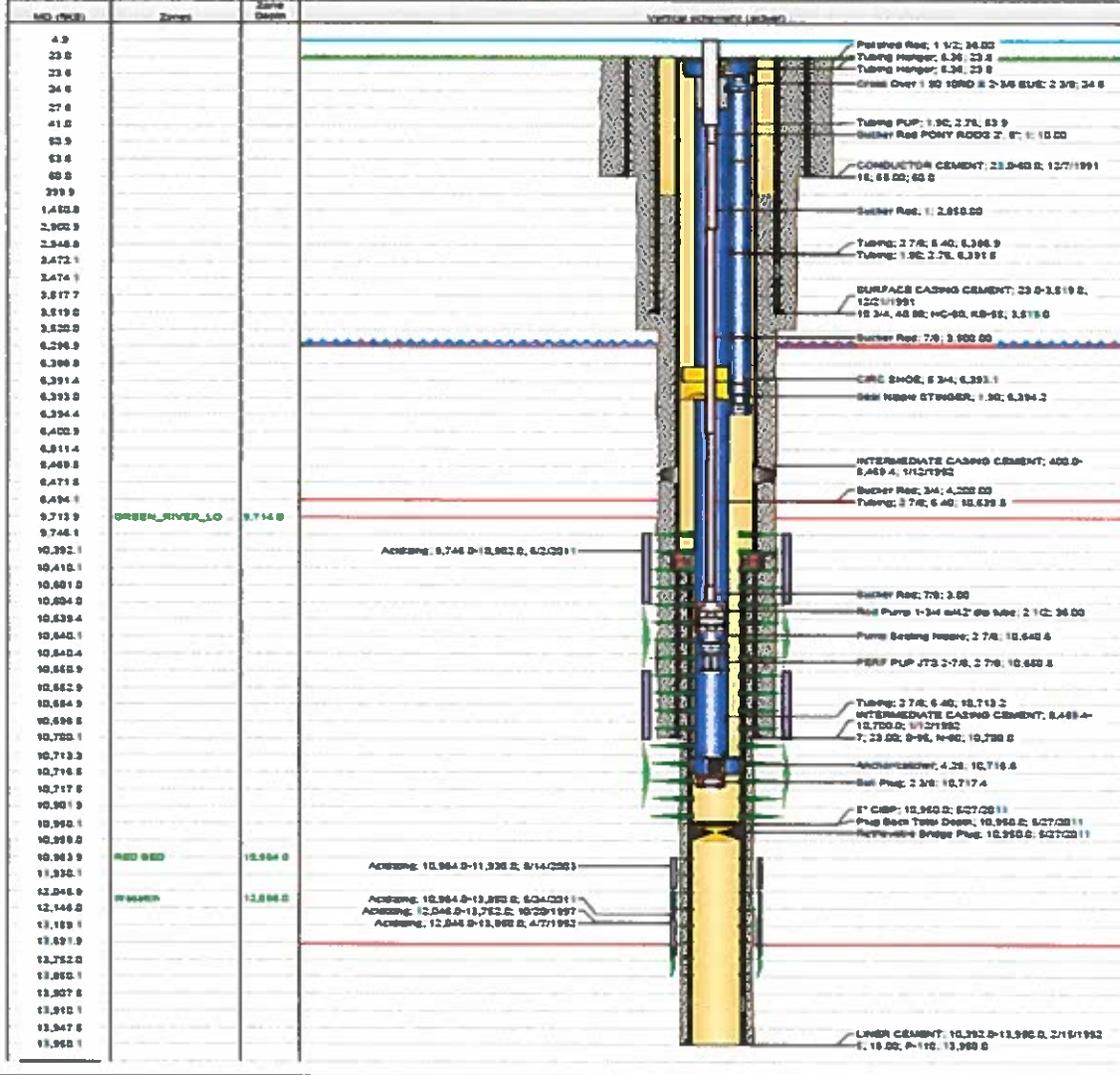
Top (ftKB)	Btm (ftKB)	Zone	# Perfs	Current Status	Individual perfs/Notes
9,746.00	10,046.00	Lower Green River	220	Open	Isolated above PKR
10,148.00	10,280.00	Lower Green River	84	Open	Produced
10,334.00	10,902.00	Lower Green River	238	Open	Will be Isolated Below Plug with this work
TOTAL PERFS			542	Open	

WELLBORE FOR LORANGER 6-22A2 REPAIR RP AND WATER ISOLATION

LORANGER 6-22A2 - 43013313340000

AP#/UWI 43013313340000	State/Province UT	Field Name UNTA - ALTAMONT BLUEBELL OP
Ground Elevation (ft) 5,966.00	Original Well Elevation (ft) 5,689.00	CS-Ground Distance (ft) 23.00
Dr. Production Date 1/1/1901	Wellbore ID 10,950.0	Original Hole 10,950.0
Contact Name ROBERT WORKMAN	Title FOREMAN	Company

Original Date: 04/2013 11:54 AM AZT



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
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2. NAME OF OPERATOR: LINN OPERATING, INC.	9. API NUMBER: 43013313340000
3. ADDRESS OF OPERATOR: Rt. 2 Box 7735 , Roosevelt, UT, 84066	PHONE NUMBER: 435 722-1325 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1082 FSL 1119 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 22 Township: 01.0S Range: 02.0W Meridian: U	9. FIELD and POOL or WILDCAT: BLUEBELL
	COUNTY: DUCHESNE
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<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/1/2015	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
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	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="report operations to isolate p"/>

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

Linn Operating, Inc. performed the following procedures on the Loranger 6-22A2 to isolate perms in the lower Green River formation: 9/28/15: MIRU SWS#1. BMW Hot Oil pumped 100 BBLs down CSG, fill TBG W/24 BBLs, PSI test to 3500 PSI, test good. POOH W/rods, bleed CSG, ND wellhead, NU BOPS, SWIFN. 9/29/15: Bleed and open well. RU WL. RIH W/6.02" Gauge ring to 10,387' POOH, RIH W/CBP set @ 10,235', POOH, RDWL. MU 7" arrow set PKR, RIH W/110-JNTS 2 7/8" TBG, SWIFN, EOT @ 3195'. 10-1-15: Bleed and open well. RIH W/TBG, Land TBG on hanger, RD TBG equip, ND BOPS, Unland TBG, set PKR @ 10,110.86', land on hanger W/20,000# tension, NU wellhead ASSM, X-over rod equip, Hot oiler flushed 50 BBLs down TBG, PU stroke test pump, add 40' diptube, PU K-bars, RIH W/3/4" rods, space out, PU subs & PR seat pump. hole full stroke test 500 PSI, test good. Returned isolated zone to production.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 November 09, 2015

NAME (PLEASE PRINT) Andrea Gurr	PHONE NUMBER 435 722-1325	TITLE Regulatory & Permit Tech
SIGNATURE N/A	DATE 10/7/2015	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
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1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: LORANGER 6-22A2
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3. ADDRESS OF OPERATOR: Rt. 2 Box 7735 , Roosevelt, UT, 84066	PHONE NUMBER: 435 722-1325 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1082 FSL 1119 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 22 Township: 01.0S Range: 02.0W Meridian: U	9. FIELD and POOL or WILDCAT: BLUEBELL
	COUNTY: DUCHESNE
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 11/16/2015	<input checked="" type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
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	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

LINN Operating, Inc. respectfully requests approval to acidize the Lower Green River formation from 10,148' to 10,218' through tubing. MIRU, POOH w/rods/pump. NU BOPs, test per SOP's. Acidize LGR perfs through tubing with 5,000 gal 15% HCL with non-emulsifier, inhibitor and iron control. RIH w/rods/pump & return well to production. RDMO.

Approved by the
 November 18, 2015
 Oil, Gas and Mining

Date: _____

By: *Derek Duff*

NAME (PLEASE PRINT) Nancy Fitzwater	PHONE NUMBER 281 840-4266	TITLE Regulatory Compliance Supervisor
SIGNATURE N/A	DATE 11/10/2015	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
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		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: LORANGER 6-22A2	
2. NAME OF OPERATOR: LINN OPERATING, INC.	9. API NUMBER: 43013313340000	
3. ADDRESS OF OPERATOR: 600 Travis St. Suite 5100 , Houston, TX, 77002	PHONE NUMBER: 435 722-1325 Ext	9. FIELD and POOL or WILDCAT: BLUEBELL
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1082 FSL 1119 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 22 Township: 01.0S Range: 02.0W Meridian: U	COUNTY: DUCHESNE	
	STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/28/2016 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input checked="" type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Rescind Request"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
Linn Operating, Inc. respectfully requests to rescind the approved NOI, sundry #67622, dated 11/18/2015, to acidize the lower Green River formation on the Loranger 6-22A2. This work has been cancelled.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY November 21, 2016		
NAME (PLEASE PRINT) Andrea Gurr	PHONE NUMBER 435 722-1325	TITLE Regulatory Specialist 1
SIGNATURE N/A	DATE 10/28/2016	