Form OGC-1a

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

CONFIDENTIAL

(Other instructions on reverse side)

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work: DRILL [XX] DEEPEN [ ] PLUG BACK [ ]

b. Type of Well: Oil Well [XX] Gas Well [ ] Other Single Zone [XX] 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: 660 FSL & 1543' FEL
At proposed prod. zone: 660' FNL & 660' FEL

5. Lease Designation and Serial No.: FEE LAND

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

8. Farm or Lease Name: BAR-F

9. Well No.: 2-5B1

10. Field and Pool, or Wildcat: BLUEBELL 065

11. Sec., T., R., M., or Blk. and Survey or Area: SWSE Sec. 5 T2S, R1W

12. County or Parrish: Duchesne 13. State: Utah

14. Distance in miles and direction from nearest town or post office*: 3 miles North of Roosevelt on highway 121

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any): Target- 660' FNL & FEL; Loc. 660' FSL

16. No. of acres in lease: 644

17. No. of acres assigned to this well: 644

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.: Target - 4125'; Loc. - 2565'

19. Proposed depth: 12,200' TVD & 15,200' MD

20. Rotary or cable tools: ROTARY

21. Elevations (Show whether DF, RT, GR, etc.): Ungraded GR 5390'

22. Approx. date work will start*: Aug. 15, 1990

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
17 1/2"	13 3/8"	54.5#	2500'	2600 cu ft
12 1/4"	9 5/8"	40/43.5#	10,150'	3200 cu ft
8 1/2"	5 1/2"	23#	15,200' MD	1300 cu ft

1. Enclosed attachment: a. Certified Location Plat
   b. Drilling Plan
   c. BOP Schematic
   d. Schematic of rig layout on wellsite
   e. 1 Map showing locations

2. Water permit: Water Permit No. 43-3047

3. An AFE has been prepared and a copy has been sent to joint interest holders for their approval

TECHNICAL REVIEW
Engr. JRB 8-13-90
Geol. DJJ 8-10-90
Surface BGH 7-31-90

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. OFFICE (801) 353-4397 HOME (801) 789-7033

Signed: Danny R. Lemman Title: Drilling Foreman Date: 7-30-90

(This space for Federal or State office use)

Permit No. 43-013-31086 Approval Date: APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING DATE: 8-14-90 BY: John R. Baza

Approved by: Title: Date:

Conditions of approval, if any:

WELL SPACING: 139-42 4-17-85

*See Instructions On Reverse Side

OPERATOR:.....PENNZOIL EXPLORATION & PRODUCTION COMPANY
WELL:.....Bar-F No. 2-5B1
WELL LOCATION:...660 FSL & 1543 FEL
SWSE Section 5, T2S, R1W
Duchesne County, Utah

This well is proposed as a HIGH ANGLE WELL:

A. REASON FOR DEVIATION is to encounter more fractures in the Wasatch to increase productive.

B. PROPOSED TARGET will be 660 FNL & 660 FEL NENE Section 5, T2S, R1W

C. KICK OFF POINT proposed at 10,350 ± TVD

D. ANGLE BUILD SECTION proposed for 14 degrees per 100', builded to 72± degrees at 10,900'± MD and 10,775+ TVD

E. LATERAL SECTION to maitain a 72± degrees at a direction of N13E to total depth of 15,200± MD and 12,200'± TVD

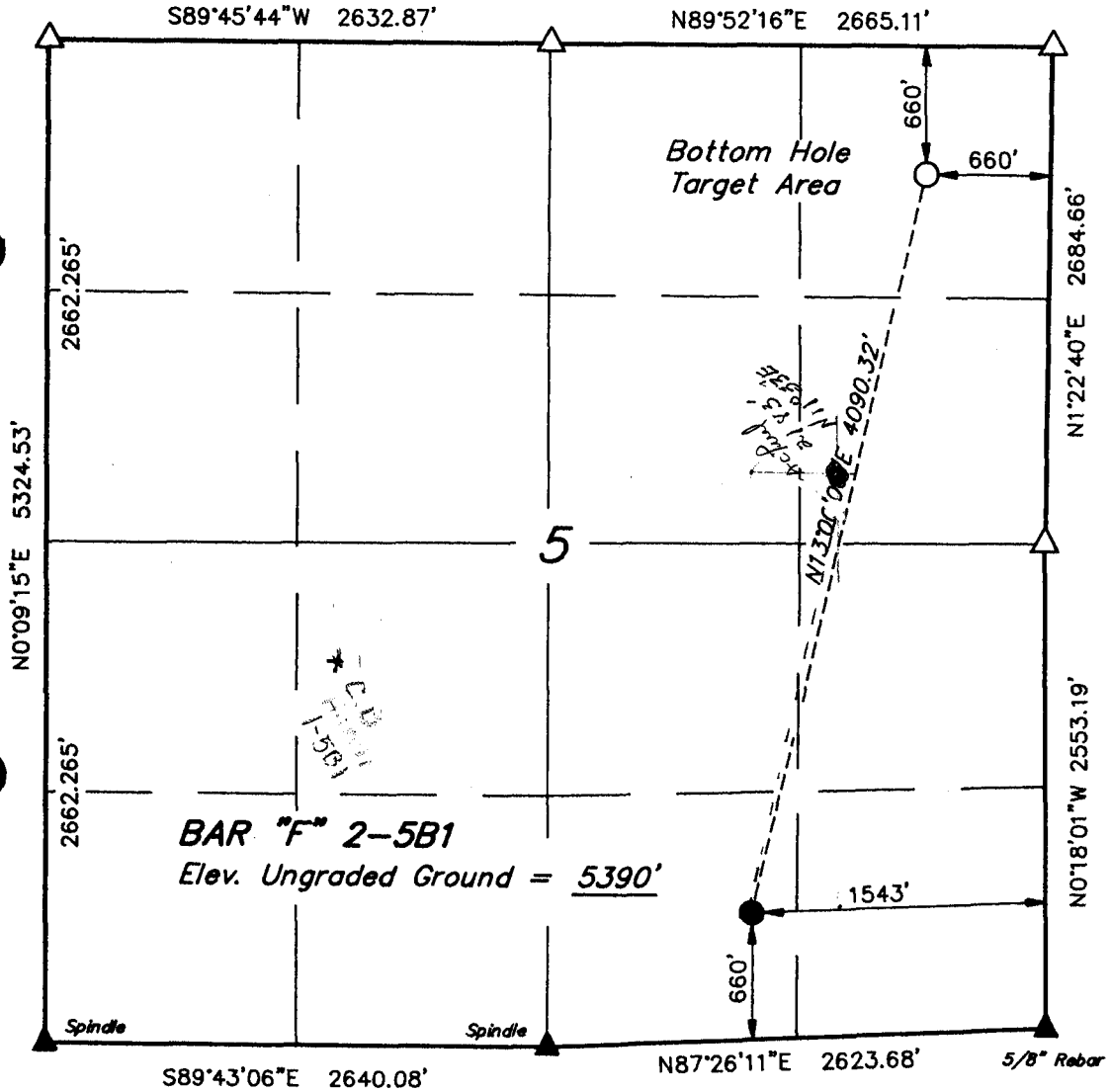
1. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL FORMATIONS:

Duchesne River	at surface (surface formation)
Uinta	near the surface
Green River	6690'
Trona	7090'
Mahogany Bench	7800'
TGR3	8990'
CP-70	9930'
Top of Wasatch	10,800'
Wasatch 200	11,800' TVD
Total Depth	12,200' TVD 15,200' MD

PENNZOIL EXPLR. & PROD. CO.

Well location, BAR "F" 2-5B1, located as shown in the SW 1/4 SE 1/4 of Section 5, T2S, R1W, U.S.B.&M. Duchesne County, Utah.

T2S, R1W, U.S.B.&M.



△ = SECTION CORNERS LOCATED OR RE-ESTABLISHED BY U.E.L.S. DURING PREVIOUS SURVEY.

▲ = SECTION CORNERS LOCATED.

BASIS OF ELEVATION

BENCH MARK IN THE EAST HALF OF SECTION 8, 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 5217 FEET.

N

CERTIFICATE

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

REGISTERED LAND SURVEYOR
REGISTRATION NO. 5709
STATE OF UTAH

REGISTERED LAND SURVEYOR No. 5709 ROBERT L. KAY STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(801) 789-1017

SCALE 1" = 1000'	DATE 7-25-90
PARTY R.L.K. D.A. J.R.S.	REFERENCES G.L.O. PLAT
WEATHER HOT	FILE PENNZOIL EXPLR. & PROD. CO.

PENNZOIL EXPLORATION AND PRODUCTION COMPANY
P. O. BOX 290 • NEOLA, UTAH 84053 • (801) 353 - 4397

July 30,1990

State of Utah, Dept. 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
Bar-F No. 2-5B1
660' FSL & 1543' FEL
SWSE Sec. 5, T2S, R1W
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 as permitted by regulations and law.

Should there be any question, please contact the undersigned.

Sincerely,
Pennzoil Exploration and Production Company

Danny L. Laman

Danny L. Laman
Drilling Foreman

Enclosure

2. ESTIMATED OIL & WATER DEPTHS:

Water	None anticipated
Top Green River production	Oil @ 6690'±
Top Wasatch production	Oil @ 10,800'±

3. PROPOSED CASING PROGRAM:

A. 20" conductor to be set and cemented at a proposed depth of 120'± and cemented to surface.

B. 13 3/8", 54.5#, K-55, STC, to be set and cemented to surface at a proposed depth of 2500'.

Cement: Low density filler cement to surface. Tail-in with 250 sks Cl "G" or "H" tailored for depth and temp.

C. 9 5/8", 40/43.5# S-95/N-80 LTC to be set and cemented at a proposed depth of 10,150' in the CP-70

Cement: Low density filler cement to surface. Tail-in with Cl "G" or "H" tailored to depth and temperature.

D. 5 1/2" 23#, N-80 liner to be set from 10,000' to 15,200' MD and cemented.

Cement: Cl "G" or "H" tailored to depth and temperature.

4. OPERATOR"S PRESSURE CONTROL PLAN:

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

The BOP equipment will be nippled up on the surface casing and pressure tested prior to drilling out;

A. All rams and choke manifold will be tested to 5000 psi.

B. Bag preventer will be tested to 50% of it's rated working pressure.

C. Record all BOP tests on tour reports.

D. Retest BOP stack every 28 days.

E. All casing strings will be tested to 70% of the minimum internal yeild pressure or 2000 psi which ever is greater.

F. Fill-up line above bag preventer

G. Kill line located below the BOP rams.

OPERATIONAL CHECKS:

A. Pipe rams will be closed and open once each 24 hours.

B. Blind rams will be closed and opened each time the drill string is pulled from the well bore.

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 utilized to monitor the mud system.

5. PROPOSED DRILLING FLUID PROGRAM:

A. 20" conductor and surface hole will be with clear fresh water, utilizing lime and bentonite to flocculate drill solids and keep the water clean.

Should a water flow be encountered it will be kill and contained with a fresh wwater mud system.

B. Intermediate section will be drilled with fresh water, using viscous sweeps to keep the well bore clean. Prior to TD a low solids non-disperse mud system will be used to condition the hole for logs and intermediate casing.

Final fluid properties: 9/10 ppg, 32/36 vis., 15/20 WL

C. Productive interval will be drilled with a low shearing polymer mud system.

Final fluid properties: 13/15#, 40/55 vis., 10/15 WL

6. WELL BORE EVALUATION:

A. Drill stem testing	None planned
B. Coring:	None planned
C. Logging:	Surface hole - none
	Intermediate Hole: DLL-GR, FDC-CNL, BHC-SONIC
	Productive Hole: DLL-GR FDC-CNL, BHC-Sonic

D. COMPLETION: The objective formation is the Wasatch. Selected zones will be perforated and evaluated for stimulation work. Probably treated with 100 gals. of 7 1/2% and/or 15% per foot of perfs .

7. PRESSURE AND TEMPERATURES:

A. Pressure:

At total depth the mud weight will probably be 14.5 ppg and the formation pressure 9300 psi±.

B. Temperatures:

Temperatures are normal for this area and well depths, probably 225 degrees at 12,200 TVD.

8. ANTICIPATED STARTING DATE:

Construction of road and location will probably start with-in (7) days of approval.

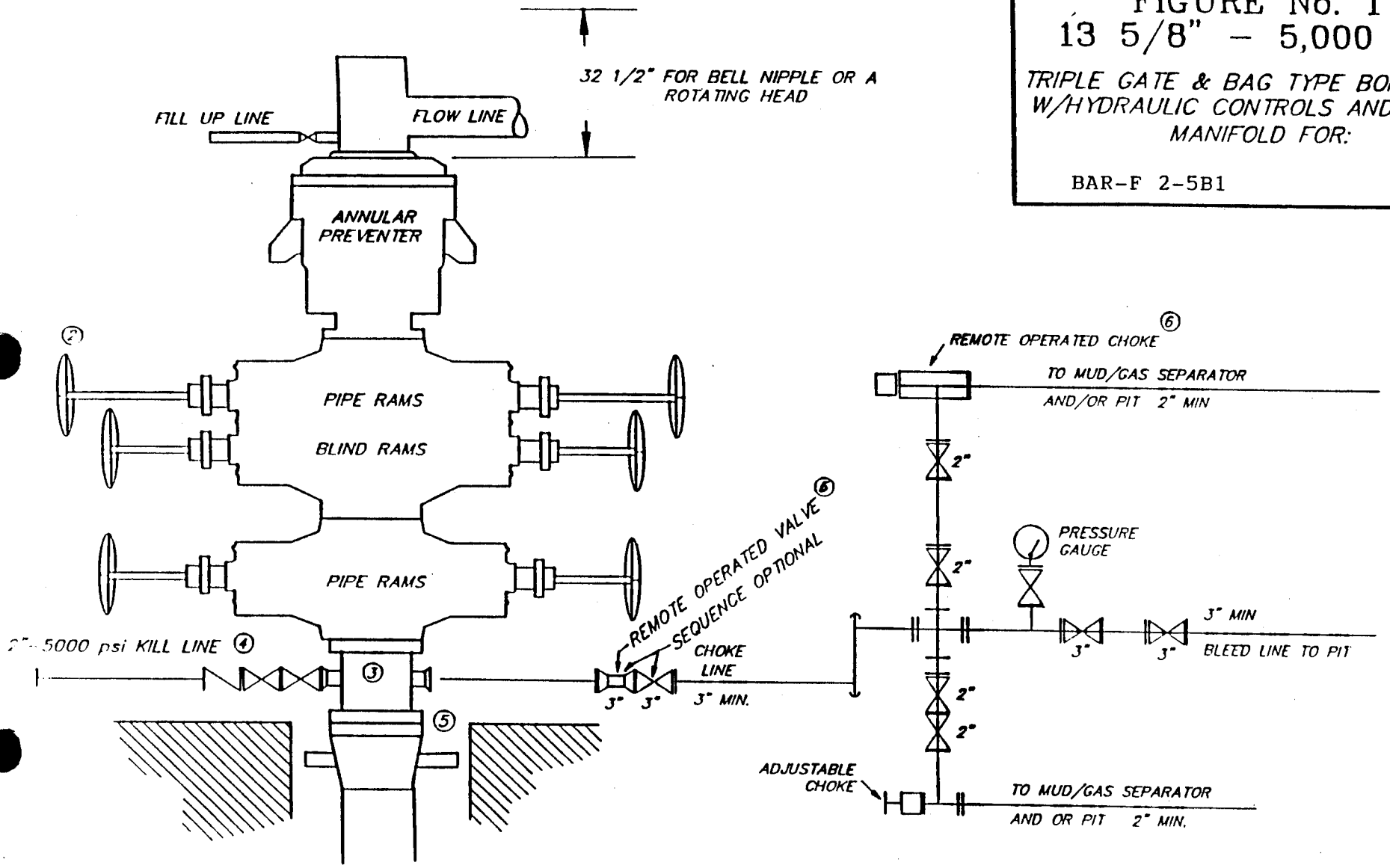
9. This well will be drilled per regulations as set forth by the:

State of Utah Natural Resource
Oil, Gas, and Mining Division

FIGURE No. 1
13 5/8" – 5,000 psi ①

TRIPLE GATE & BAG TYPE BOP STACK W/HYDRAULIC CONTROLS AND CHOKE MANIFOLD FOR:

BAR-F 2-5B1



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 <u>GROUND LEVEL.</u>

⑥ = REMOTE CONTROLS ON RIG FLOOR.

APPLICATION FOR TEMPORARY CHANGE OF WATER

STATE OF UTAH

Rec. by _____

Fee Paid $ _____

Receipt # _____

Microfilmed _____

Roll # _____

For the purpose of obtaining permission to make a temporary 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 Section 73-3-3 Utah Code Annotated 1953, as amended.

CHANGE APPLICATION NUMBER: t90-43-06 **WATER RIGHT NUMBER: 43 - 3047**

****

This Change Application proposes to change the POINT(S) OF DIVERSION, PLACE OF USE, and NATURE OF USE.

****

1. **OWNERSHIP INFORMATION.**

   A. **NAME:** Dry Gulch Irrigation Company - Owner
   C/O Pennzoil - User
   ADDRESS: P.O. Box 290, Neola, UT 84053

   B. **PRIORITY OF CHANGE:** August 8, 1990 **FILING DATE:** August 8, 1990

   C. **RIGHT EVIDENCED BY:** Application A727

*** DESCRIPTION OF CURRENT WATER RIGHT: ***
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2. **SOURCE INFORMATION.**

   A. **QUANTITY OF WATER:** 44.0 cfs

   B. **DIRECT SOURCE:** Uintah River **COUNTY:** Duchesne

   C. **POINTS OF DIVERSION -- SURFACE:**
   (1) N 236 feet E 198 feet from SW corner, Section 4, T 1N, R 1W, USBM
   (2) S 187 feet E 794 feet from NW corner, Section 25, T 1N, R 1W, USBM

3. **WATER USE INFORMATION.**

   IRRIGATION: from Apr 1 to Oct 31. IRRIGATING: 1,821.82 acres.

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7. PLACE OF USE. Changed as Follows:

(Which includes all or part of the following legal subdivisions:)

BASE	TOWN	RANG	SEC	NORTH-EAST¼ NE	NW	SW	SE		NORTH-WEST¼ NE	NW	SW	SE		SOUTH-WEST¼ NE	NW	SW	SE		SOUTH-EAST¼ NE	NW	SW	SE
US	2S	1W	5					■■■					■■■					■■■			X	

8. SIGNATURE OF APPLICANT(S).

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).

Danny L. Kuman

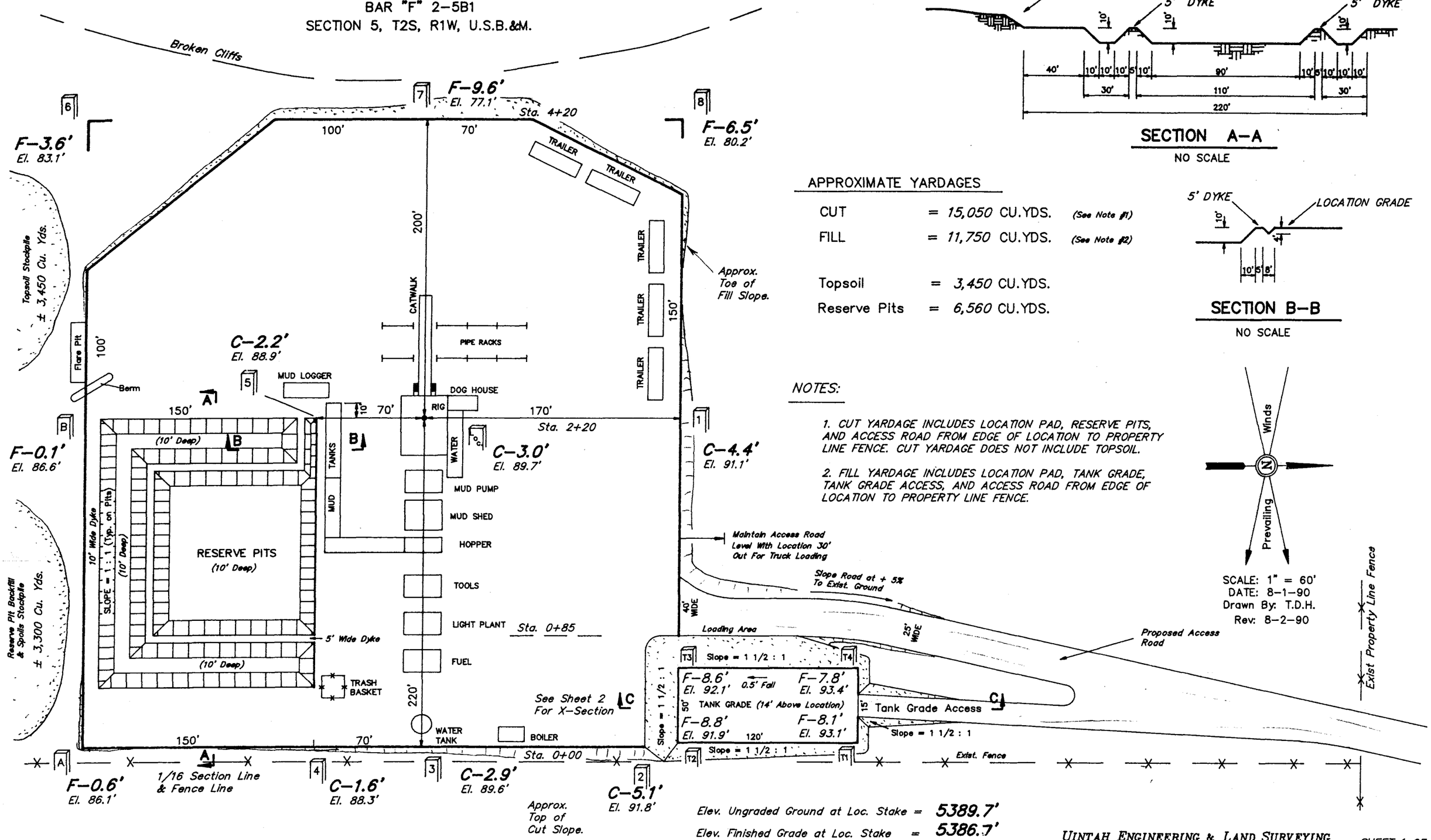
Signature of Applicant(s)

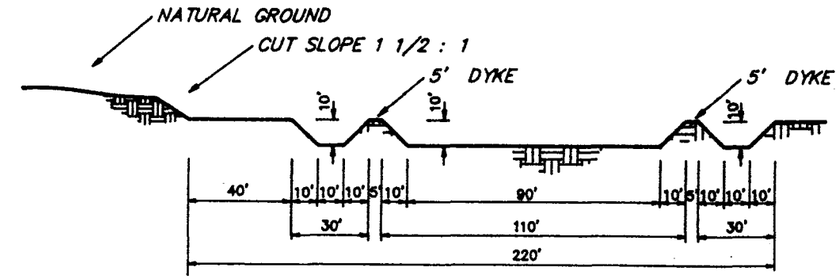
PENNZOIL EXPLR. & PROD. CO.

LOCATION LAYOUT FOR

BAR "F" 2-5B1

SECTION 5, T2S, R1W, U.S.B.&M.





SECTION A-A

NO SCALE

APPROXIMATE YARDAGES

CUT	= 15,050 CU.YDS.	(See Note #1)
FILL	= 11,750 CU.YDS.	(See Note #2)
Topsoil	= 3,450 CU.YDS.	
Reserve Pits	= 6,560 CU.YDS.	

SECTION B-B

NO SCALE

NOTES:

1. CUT YARDAGE INCLUDES LOCATION PAD, RESERVE PITS, AND ACCESS ROAD FROM EDGE OF LOCATION TO PROPERTY LINE FENCE. CUT YARDAGE DOES NOT INCLUDE TOPSOIL.

2. FILL YARDAGE INCLUDES LOCATION PAD, TANK GRADE, TANK GRADE ACCESS, AND ACCESS ROAD FROM EDGE OF LOCATION TO PROPERTY LINE FENCE.

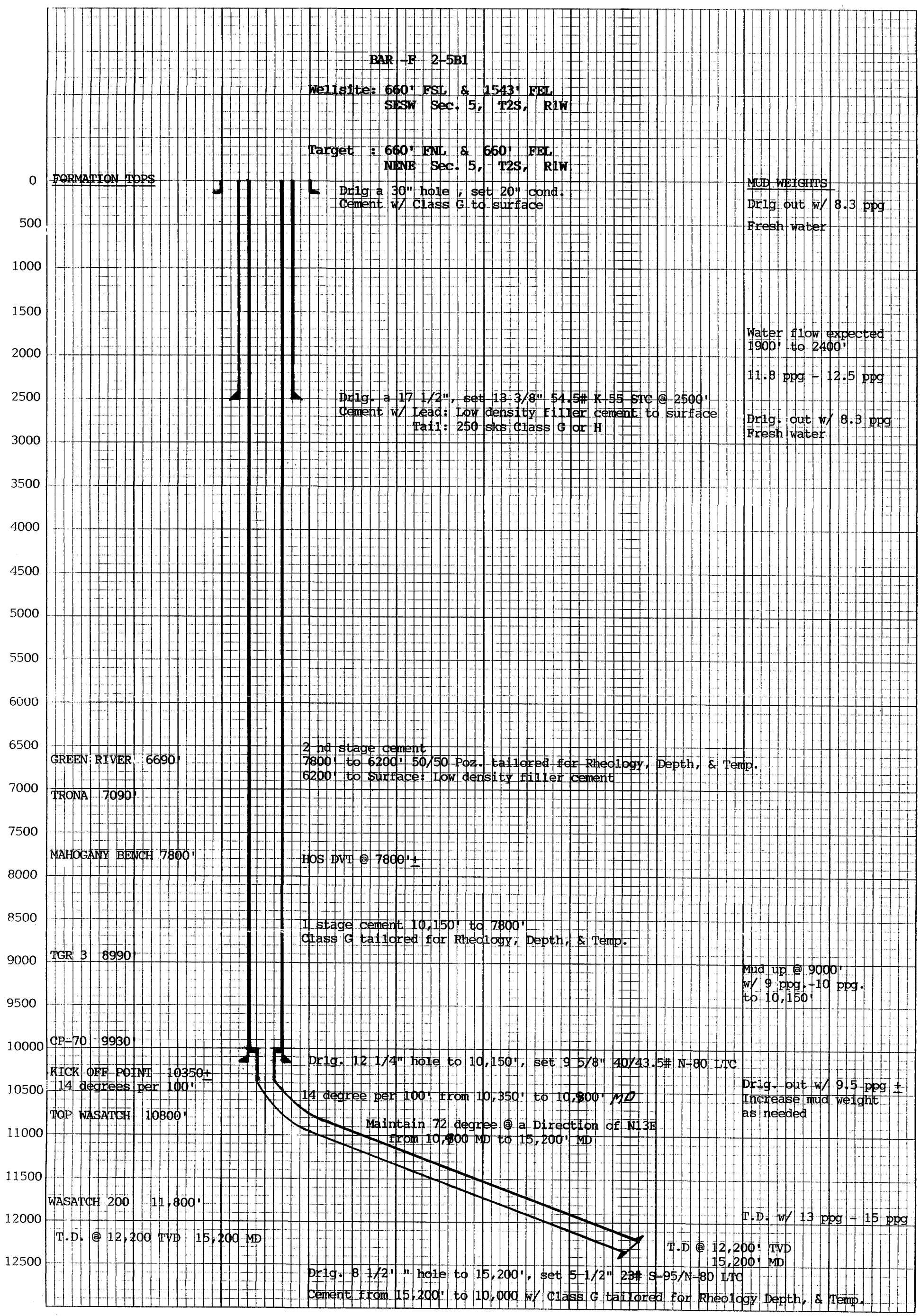
SCALE: 1" = 60'
DATE: 8-1-90
Drawn By: T.D.H.
Rev: 8-2-90

Elev. Ungraded Ground at Loc. Stake = 5389.7'

Elev. Finished Grade at Loc. Stake = 5386.7'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East Vernal, Utah

10 X 10 TO THE INCH • 10 X 15 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.



PENNZOIL EXPLORATION AND PRODUCTION COMPANY
P. O. BOX 290 • NEOLA, UTAH 84053 • (801) 353-4397

August 1, 1990

RECEIVED
AUG 06 1990
DIVISION OF
OIL, GAS & MINING

State of Utah, Dept. of Natural Resources
Division of Oil, Gas, and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
Attention: John Baza

Dear Sir:

Enclosed you will find two copies of Scientific Drilling International (a directional company that is being consider for this well) trajectory and two copies of the well schematic.

I am looking forward to our meeting on August 10, 1990.

Sincerely
Pennzoil Exploration and Production Company

Danny L. Laman

Danny L. Laman
Drilling Foreman

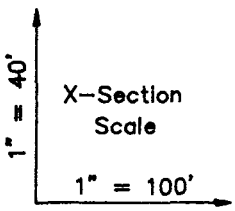
OIL AND GAS
DFN | RJF
JRB | GLH
DTS | SLS
MICROFILM
FILE

PENNZOIL EXPLR. & PROD. CO.

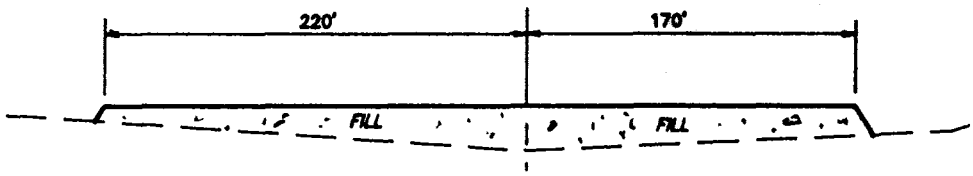
LOCATION LAYOUT FOR

BAR "F" 2-5B1

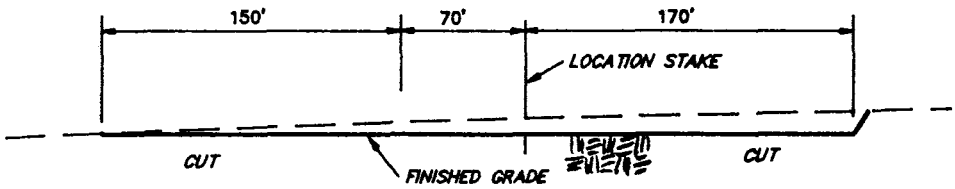
SECTION 5, T2S, R1W, U.S.B.&M.



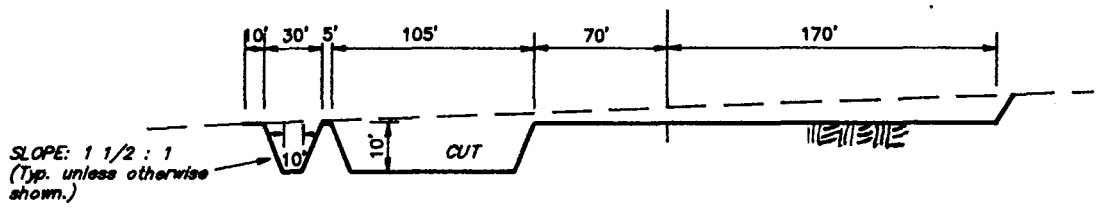
DATE: 8-1-90



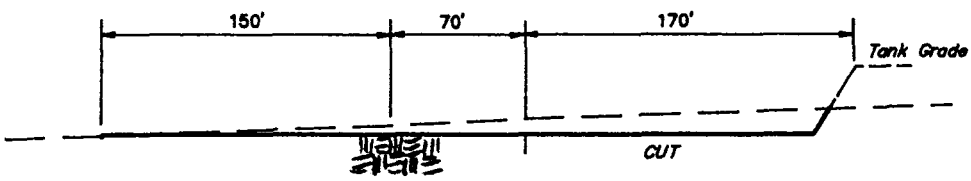
STA. 4+20



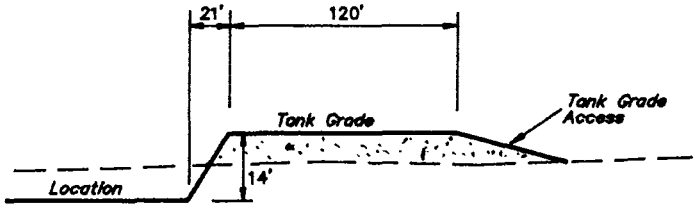
STA. 2+20



STA. 0+85



STA. 0+00

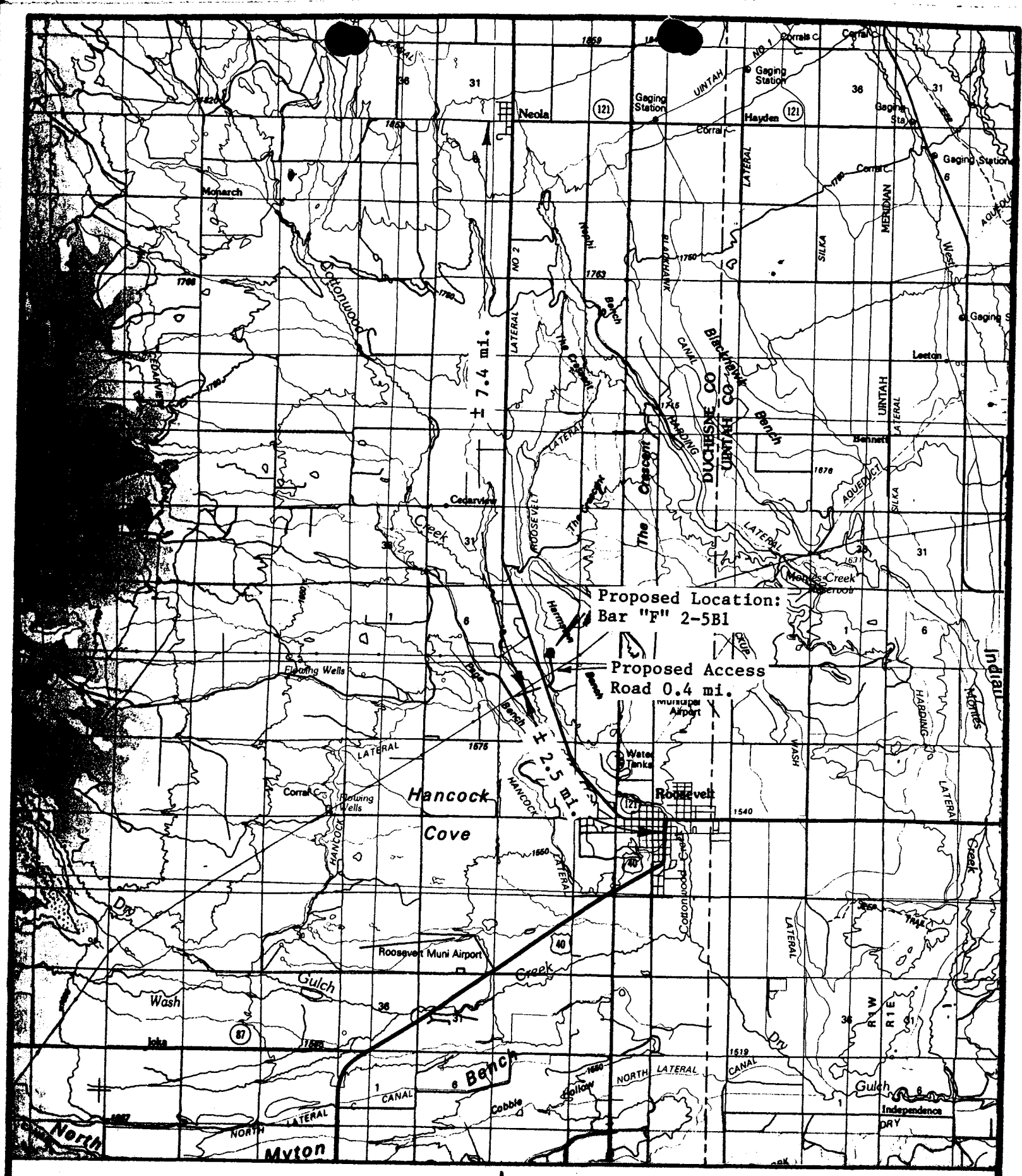


SECTION C-C

From Sheet 1

UINTAH ENGINEERING & LAND SURVEYING

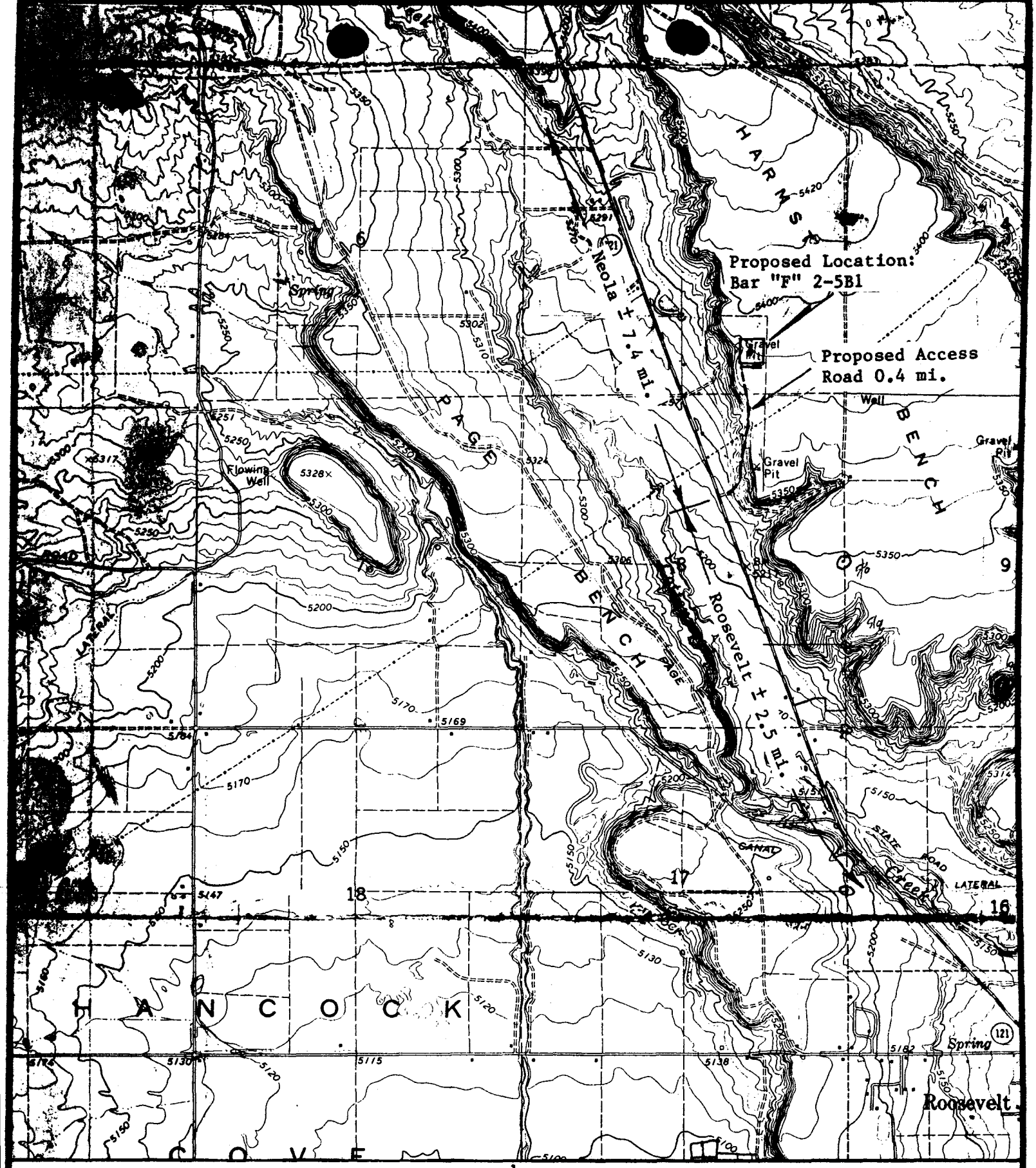
85 So. 200 East Vernal, Utah



TOPOGRAPHIC
MAP "A"

Date: 7-26-90 J.R.S.

PENNZOIL EXPLR. & PROD. CO.
BAR "F" 2-5B1
SECTION 5, T2S, R1W, U.S.B.&M.



TOPOGRAPHIC

MAP "B"

Date: 7-26-90 J.R.S.

N

PENNZOIL EXPLR. & PROD. CO.
BAR "F" 2-5B1
SECTION 5, T2S, R1W, U.S.B.&M.

PENNZOIL EXPLR. & PROD. CO.
DRILLING PLAN SCHEMATIC
BAR-F 2-5B1

WELLSITE: 660' FSL & 1543' FEL
SW 1/4 SE 1/4 SEC. 5, T2S, R1W,
U.S.B.&M.

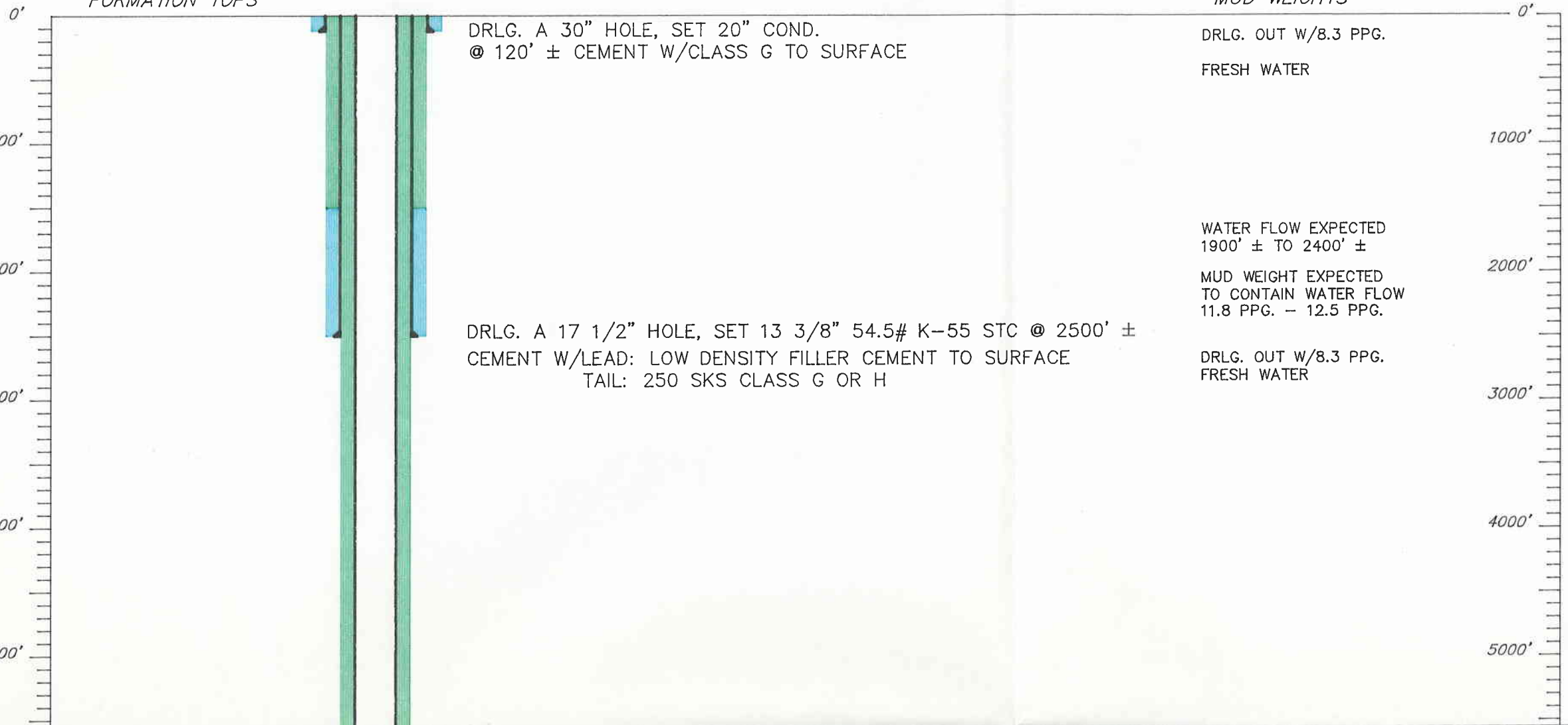
TARGET: BEARS N13°E TO A FINAL LOCATION
OF 660' FNL & 660' FEL
NE 1/4 NE 1/4 SEC. 5, T2S, R1W.
U.S.B.&M.

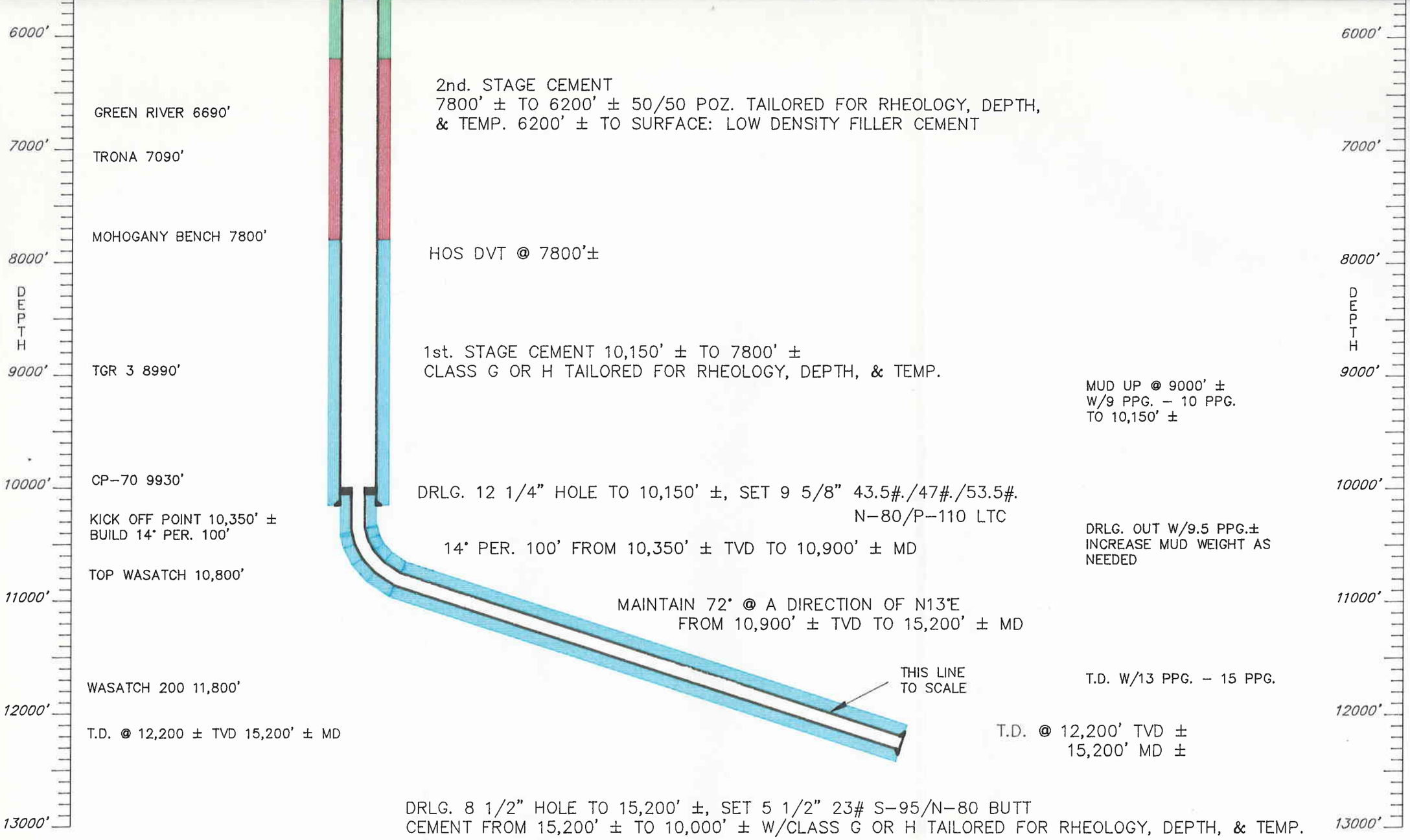
DISPLACEMENT APPROX. 4200' ±
T.D. @ 12,200' ± TVD
15,200' ± MD

PREPARED BY: DANNY LAMAN
DRAWN BY: Uintah Engineering & Land Surveying

FORMATION TOPS

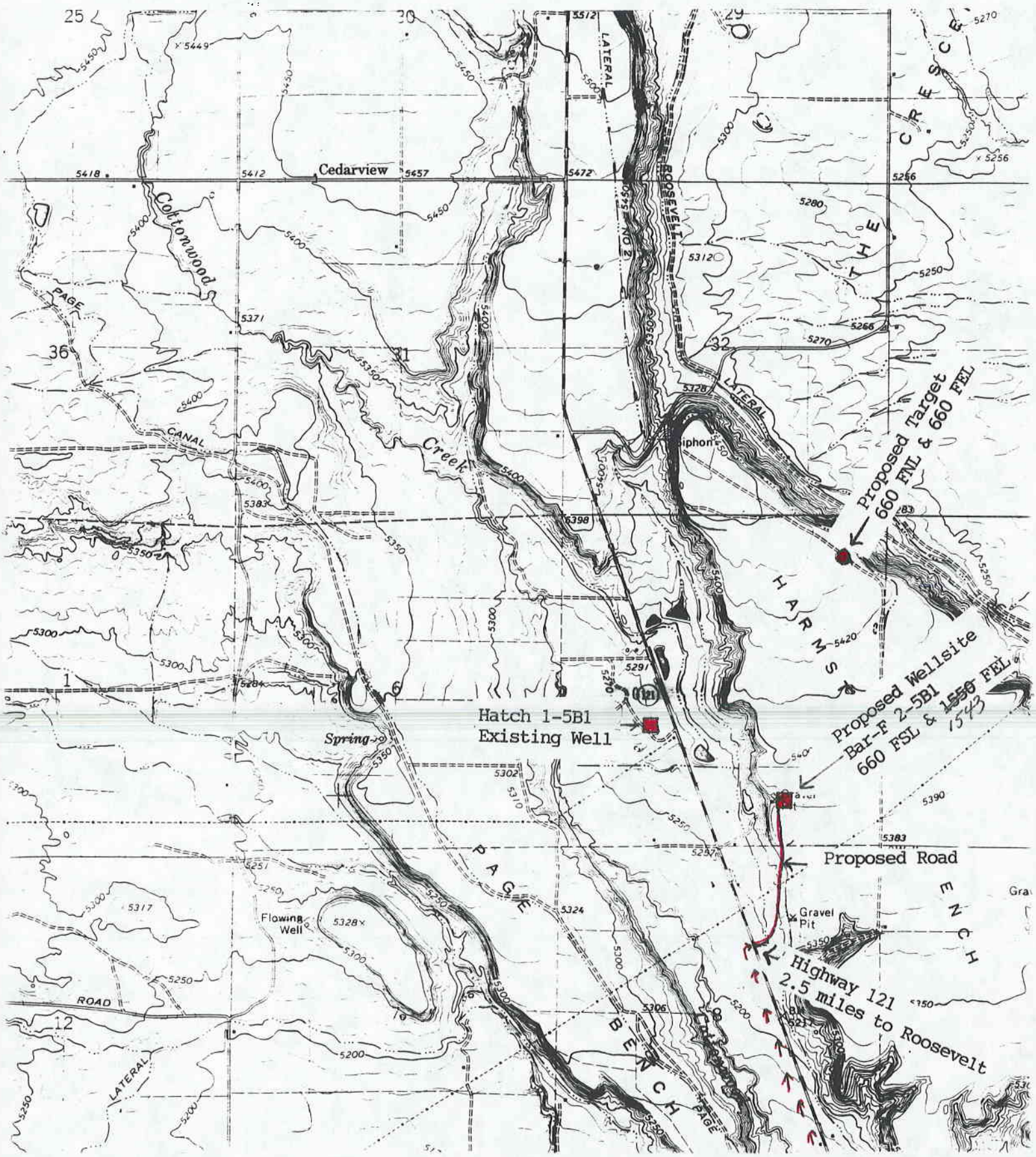
MUD WEIGHTS




6000'
7000'
8000'
9000'
10000'
11000'
12000'
13000'
DEPTH
GREEN RIVER 6690'
TRONA 7090'
MOHOGANY BENCH 7800'
TGR 3 8990'
CP-70 9930'
KICK OFF POINT 10,350' ±
BUILD 14° PER. 100'
TOP WASATCH 10,800'
WASATCH 200 11,800'
T.D. @ 12,200 ± TVD 15,200' ± MD
2nd. STAGE CEMENT
7800' ± TO 6200' ± 50/50 POZ. TAILORED FOR RHEOLOGY, DEPTH,
& TEMP. 6200' ± TO SURFACE: LOW DENSITY FILLER CEMENT
HOS DVT @ 7800'±
1st. STAGE CEMENT 10,150' ± TO 7800' ±
CLASS G OR H TAILORED FOR RHEOLOGY, DEPTH, & TEMP.
MUD UP @ 9000' ±
W/9 PPG. - 10 PPG.
TO 10,150' ±
DRLG. 12 1/4" HOLE TO 10,150' ±, SET 9 5/8" 43.5#./47#./53.5#.
N-80/P-110 LTC
DRLG. OUT W/9.5 PPG.±
INCREASE MUD WEIGHT AS
NEEDED
14° PER. 100' FROM 10,350' ± TVD TO 10,900' ± MD
MAINTAIN 72° @ A DIRECTION OF N13°E
FROM 10,900' ± TVD TO 15,200' ± MD
THIS LINE
TO SCALE
T.D. W/13 PPG. - 15 PPG.
T.D. @ 12,200' TVD ±
15,200' MD ±
DRLG. 8 1/2" HOLE TO 15,200' ±, SET 5 1/2" 23# S-95/N-80 BUTT
CEMENT FROM 15,200' ± TO 10,000' ± W/CLASS G OR H TAILORED FOR RHEOLOGY, DEPTH, & TEMP.

PENNZOIL EXPLORATION AND PRODUCTION COMPANY

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

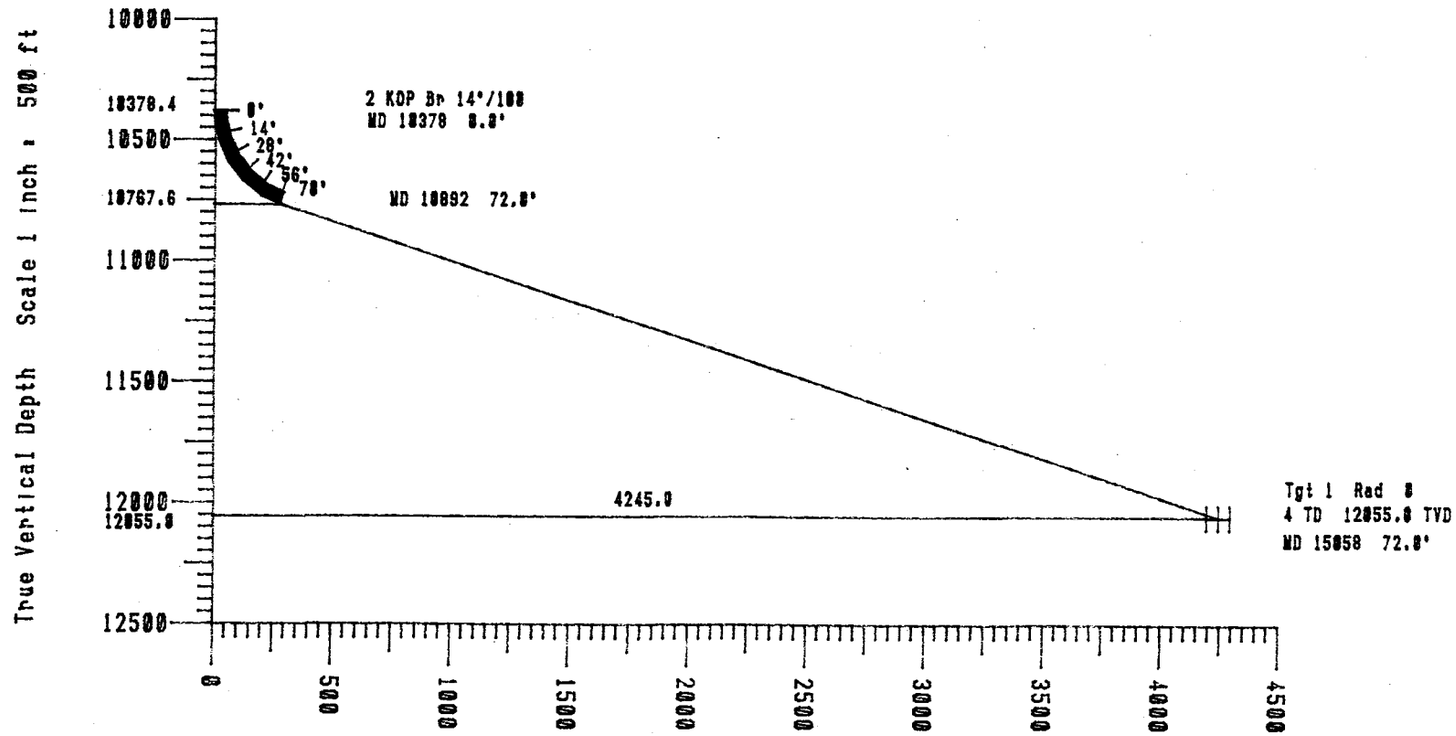


SCIENTIFIC DRILLING INTERNATIONAL
FOR
PENNZOIL COMPANY
THE [redacted]2 BAR F 2-5B1
DUCHESNE COUNTY, UTAH

BY STEVE COCHRAN
CASPER, WYOMING

ALL DIRECTIONS REL TO LOCAL NORTH

True (+ 0)
Mag (+ 13)



PLANE OF VERT SECTn N11.98E
PLOT DATE 04-11-1990

TARGET DETAILS

No	TVD	Lat	Dep
1	12055.0	4152.6	880.9

WELL PROPOSAL

Sec	MD	TVD	VS	INC	DIR	LAT	DEP	TGT
1	0.0	0.0	0.0	0.0	N11.98E	0.0	0.0	
2	10378.4	10378.4	0.0	0.0	N11.98E	0.0	0.0	
3	10892.7	10767.6	282.8	72.0	N11.98E	276.6	58.7	
4	15058.8	12055.0	4245.0	72.0	N11.98E	4152.6	880.9	1

CASING DETAILS

No	Size	TVD	MD

DRILLING LOCATION ASSESSMENT

State of Utah
Division of Oil, Gas and Mining

OPERATOR: PENNZOIL E & P COMPANY WELL NAME: BAR-F 2-5B1
SECTION: 5 TWP: 2S RNG: 1W LOC: 660 FSL 1543 FEL
BOTTOM HOLE LOCATION: 660 FNL 660 FEL
QTR/QTR SW/SE COUNTY: DUCHESNE FIELD: BLUEBELL
SURFACE OWNER: FRESTON TRUST
SPACING: 660 F SECTION LINE 1320 F ANOTHER WELL
INSPECTOR: BRAD HILL DATE AND TIME: 7/27/90 13:00

PARTICIPANTS: Dorrant Freston, Randy Freston-Landowners; Danny Laman-Pennzoil; Gil Mitchel-Contractor; Tracy Monk-Contractor; Robert Kay-Uinta Engineering; Dalmatian-Dorrant's dog

REGIONAL SETTING/TOPOGRAPHY: Central Uinta Basin, high glacial outwash terrace approximately 3 miles north of Roosevelt.

LAND USE:

CURRENT SURFACE USE: Occasional domestic grazing.

PROPOSED SURFACE DISTURBANCE: A rectangular pad will be constructed approximately 400'X 390', including the reserve pit. Access will either be on an existing county road or on a newly constructed road 1/2 mile in length.

AFFECTED FLOODPLAINS AND/OR WETLANDS: None

FLORA/FAUNA: Rabbit brush, Sage, Russian Thistle, Greasewood, Four-wing Saltbush, Ephedra/Lizards, insects

ENVIRONMENTAL PARAMETERS

SURFACE GEOLOGY

SOIL TYPE AND CHARACTERISTICS: Thin, silty sand lying on gravels and boulders.

SURFACE FORMATION & CHARACTERISTICS: Quaternary alluvium.

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

PALEONTOLOGICAL POTENTIAL: None observed.

SUBSURFACE GEOLOGY

OBJECTIVES/DEPTHS: Green River-6690'; Wasatch-10800'

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: See APD.

LINING: To be lined with at least 12 mil synthetic liner.

MUD PROGRAM: Surface hole-fresh water, Intermediate hole-fresh water with viscous sweeps, Productive interval-low shearing polymer mud.

DRILLING WATER SUPPLY: Freston irrigation water.

STIPULATIONS FOR APD APPROVAL
Reserve pit to be lined with a synthetic liner.
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 PREVIOUS ORDERS WHICH ESTABLISHED DRILLING AND SPACING UNITS AND ANY OTHER ORDERS RELATING TO TEST WELLS FOR THE ALTAMONT, BLUEBELL AND CEDAR RIM-SINK DRAW FIELDS, DUCHESNE AND UINTAH COUNTIES, UTAH	:	FINDINGS OF FACT, CONCLUSIONS OF LAW AND ORDER Docket No. 85-007 Cause No. 139-42

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

139-42

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 form 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

CONFIDENTIAL

OPERATOR Pennzoil Expl. Prod Co DATE 8-11-90

WELL NAME Bar A - 05B1

SEC SWSE 05 T 05 R 1W COUNTY Duchesne

43-013-31086
API NUMBER

fee
TYPE OF LEASE

CHECK OFF:

- [x] PLAT
- [x] BOND
- [x] NEAREST WELL
- [x] LEASE
- [x] FIELD JSM
- [x] POTASH OR OIL SHALE

PROCESSING COMMENTS:
No other well within 1,320' sec. 5, 05, 1W.
Water Permit 43-3047 (T 90-43-06)
Presite 7-30-90 - Geology review 8-10-90

CONFIDENTIAL PERIOD EXPIRED ON 10-14-90

APPROVAL LETTER:

SPACING: [ ] R615-2-3 N/A UNIT [ ] R615-3-2

[x] 139-42 4-17-85 CAUSE NO. & DATE [ ] R615-3-3

STIPULATIONS:
1- fee
2- The reserve pit shall be lined with a tear-resistant synthetic liner.
3- Upon completion of the well for production, the operator shall evaluate the well relative to existing spacing orders and present information to the Division justifying the appropriateness of the established drilling unit for this well.

0218T

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

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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

August 14, 1990

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

Gentlemen:

Re: Bar-F 2-5B1 - SW SE Sec. 5, T. 2S, R. 1W - Duchesne County, Utah
660' FSL, 1543' FEL

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

1. Pennzoil Exploration & Production Co., 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.

2. The reserve pit shall be lined with a tear-resistant synthetic liner.

3. Upon completion of the well for production, the operator shall evaluate the well relative to existing spacing orders and present information to the Division justifying the appropriateness of the established drilling unit for this well.

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 an Entity Action Form 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.

4. Prompt notification if it is necessary to plug and abandon the well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or Jim Thompson, Lead Inspector, (Home) 298-9318.

5. Compliance with the requirements of Rule R615-3-20, Gas Flaring or Venting, Oil and Gas Conservation General Rules.

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 Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.

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 43-013-31286.

Sincerely,

R. J. Firth
Associate Director, Oil & Gas

tas
Enclosures
cc: Bureau of Land Management
J. L. Thompson
WE14/1-6

CONFIDENTIAL

DIVISION OF OIL, GAS AND MINING

API NO. 43-013-31286

SPUDDING INFORMATION

NAME OF COMPANY: PENNZOIL EXPLORATION & PRODUCTION COMPANY

WELL NAME: BAR-F #2-5B1

SECTION SWSE 5 TOWNSHIP 2S RANGE 1W COUNTY DUCHESNE

DRILLING CONTRACTOR BILL JR

RIG # 1

SPUDDED: DATE 8-17-90

TIME 9:00 a.m.

HOW RAT HOLE

DRILLING WILL COMMENCE 8-21-90

REPORTED BY Danny Laman

TELEPHONE # 801-353-4397

OIL AND GAS

DEN	RJF
	GLH
	SLS
1-TAS	
2-TLT	
MICROFILM	
3- FILE	

DATE 8-17-90 SIGNED TAS

Copy

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

COMPANY: Pennzoil COMPANY MAN: Jim Jackson

WELL NAME: Bar X 2-5-B1 API #: 43-013-31286

QTR/QTR: _____ SECTION: 5 TWP: 2S RANGE: 1 West

CONTRACTOR: Forwest Rig #6 PUSHER/DRLR: John Arndt.

INSPECTOR: Bubly DATE: 9/28/90 OPERATIONS: Drlg

SPUD DATE: 8/27/90 TOTAL DEPTH: 9335'

DRILLING AND COMPLETIONS

y APD y WELL SIGN y BOPE y RESERVE PIT

y FLARE PIT n BURN PIT n H2S n BLOOIE LINE

y SANITATION y HOUSEKEEPING n VENTED/FLARED

PLUGGING AND ABANDONMENT PRODUCING FM(S): _____

PLUGS:	TYPE/SIZE	INTERVAL

PERFORATIONS: _____

CASING SIZE: _____ PULLED: YES / NO CUT AT: _____

PLUGS TESTED: _____ HOW: _____ WOC: _____

MARKER: SURFACE: _____ PLATE: _____

RECLAMATION:

CONTOURED: _____ RIPPED: _____ REHAB'D: _____

LEGEND: (Y)-YES (P)-PROBLEM (U)-UNKNOWN (BLANK)-NOT APPLICABLE

REMARKS: Drlg - will set intermediate sometime this week then BOP test on Slim hole next weekend Rig phone 722-9103.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
CEMENTING OPERATIONS

Orig.
31286

COMPANY NAME: Pennzoil Exploration & Prod. Co

WELL NAME: Bar-F2-5B1.

QTR/QTR SW/SE SECTION 5 TOWNSHIP 2S RANGE 1W

CEMENTING COMPANY: Dowell-Schlumberger WELL SIGN Yes

INSPECTOR: John L. BERRIER DATE: 9-3-90

CEMENTING OPERATIONS:

PLUGBACK: _____ SQUEEZE: _____ CASING: _____ P-A ZONE: _____

SURFACE CASING: ✓ INTERMEDIATE _____ PROD CASING: _____

PERFORATIONS _____ SQUEEZE PRESSURE _____

CASING INFORMATION:

SIZE 13 3/8" GRADE: K-55 HOLE SIZE: 17 1/2 DEPTH: 2518

-1023.86-61#

SLURRY INFORMATION:

1. CLASS: G
   LEAD: 35-65 4/6 %Gel TAIL: _____
2. SLURRY WEIGHT:
   LEAD: 12.4, 12.7, 15.8 TAIL: _____
3. WATER (GAL/SK)
   LEAD: _____ TAIL: _____
4. COMPRESSIVE STRENGTH
   PSI @ _____ HR _____

PIPE CENTRALIZED 1-shoe jt, 1-2nd jt, top 3rd, top 4th, 13-15 jts, 14-16 jts CEMENTING STAGES 1

LOST RETURNS No REGAIN RETURNS _____ BARRELS LOST _____

TOP OF CEMENT _____ PERF INTERVAL _____

CEMENT TO SURFACE? Y

ADDITIONAL COMMENTS: Forwest Rig #6 Good Circ. Cmt To pit 595 sx Circ to pit. Bump plug To 800 psi. Plug down @ 10:30 AM.

0451T

CEMENTING SERVICE REPORT

DS-496 PRINTED IN U.S.A.

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER 15-03-6994 | DATE 9-3-90
STAGE | DS DISTRICT Vernal, Utah

WELL NAME AND NO.	LOCATION (LEGAL)
BAC-FZ-5B1	Sec 5 T2S R1W
FIELD-POOL	FORMATION
Bluebell	
COUNTY/PARISH	STATE / API. NO.
Duchesne	Utah

NAME Pennzoil

AND

ADDRESS

ZIP CODE

SPECIAL INSTRUCTIONS Cement 13 3/8 Surface Casing As Per Instructions

IS CASING/TUBING SECURED? ☐ YES ☐ NO

LIFT PRESSURE 1030 PSI | CASING WEIGHT ÷ SURFACE AREA (3.14 x R²)

PRESSURE LIMIT PSI | BUMP PLUG TO PSI

ROTATE RPM | RECIPROCATE FT | No. of Centralizers 8

RIG NAME: Forwest #6

WELL DATA:		BOTTOM		TOP	
BIT SIZE 17 1/2	CSG/Liner Size	13 3/8	13 3/8		
TOTAL DEPTH 2518	WEIGHT	61#	54.5		
☒ ROT ☐ CABLE	FOOTAGE	1020.82	1508.42		
MUD TYPE Gel/Chem	GRADE				
☒ BHST ☐ BHCT 125	THREAD	8rd	8rd		
MUD DENS. 8.4	LESS FOOTAGE SHOE JOINT(S)	42.98			TOTAL
MUD VISC. 40	Disp. Capacity				

NOTE: Include Footage From Ground Level To Head In Disp. Capacity

SHOE			Stage Tool	
Float	TYPE	Insert	TYPE	
	DEPTH	2475	DEPTH	
	TYPE	Guide, Reg	TYPE	
	DEPTH	2518	DEPTH	

Head & Plugs	☒ TBG ☐ D.P.	SQUEEZE JOB	
☐ Double	SIZE	TOOL TYPE	
☒ Single	☐ WEIGHT	TOOL DEPTH	
☐ Swage	☐ GRADE	TAIL PIPE: SIZE	DEPTH
☐ Knockoff	☐ THREAD	TUBING VOLUME	Bbls
TOP ☒ R ☐ W	☐ NEW ☐ USED	CASING VOL. BELOW TOOL	Bbls
BOT ☐ R ☐ W	DEPTH	TOTAL	Bbls
		ANNUAL VOLUME	Bbls

JOB SCHEDULED FOR TIME: DATE: | ARRIVE ON LOCATION TIME: 2115 DATE 9-2-90 | LEFT LOCATION TIME: DATE:

TIME 0001 to 2400	PRESSURE TBG OR D.P.	PRESSURE CASING	VOLUME PUMPED BBL INCREMENT	VOLUME PUMPED BBL CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
2130								PRE-JOB SAFETY MEETING
2230								Rig up Casing Crew
2330								Start Run Casing
9-3								
0430								Rig up to Circulate with rig
0737								Pressure test 1500 PSI
0745		0	20	0	5	H_2O	8.3	Start H_2O Ahead
0747		110		5	—	—	—	Shut Down Load top Plug
0752		0			4	H_2O	8.3	Pump water Ahead
0756		150	264	20	7	Cmt	12.4	Start 1st Lead Slurry
0851		300	250	284	6	Cmt	12.7	Start 2nd Lead Slurry
0932		300	91	534	7	Cmt	15.8	Start tail Slurry
0947		0		625				Shut Down Drop top Plug
0952		400	382	0	12	mud	11.7	Start Displacement
1006		750	—	157	12	"	"	Cement to Surface
1027		900		260	3	—	—	Slow Rate
1029		500		372	2	—	—	Slow Rate

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS	SLURRY MIXED BBLS	SLURRY MIXED DENSITY
1.	755	1.98	35/65 Poz/G + 6% Gel + 3% CaCl2 + 1/4# SK Cellophane	264	12.4
2.	755	1.87	35/65 Poz/G + 6% Gel + 3% CaCl2 + 1/4# Cellophane + 10# SK Kolite	250	12.7
3.	450	1.14	Class G + 2% CaCl2 + 1/4# SK Cellophane	91	15.8
4.					
5.					
6.					

BREAKDOWN FLUID TYPE | VOLUME | DENSITY | PRESSURE MAX. 1000 MIN:

☐ HESITATION SQ. ☐ RUNNING SQ. | CIRCULATION LOST ☐ YES ☒ NO | Cement Circulated To Surf. ☒ YES ☐ NO 225 Bbls.

BREAKDOWN PSI | FINAL PSI | DISPLACEMENT VOL. 382 Bbls | TYPE OF WELL ☒ OIL ☐ GAS ☐ STORAGE ☐ INJECTION ☐ BRINE WATER ☐ WILDCAT

Washed Thru Perfs ☐ YES ☐ NO | TO FT | MEASURED DISPLACEMENT ☒ ☐ WIRELINE

PERFORATIONS TO TO TO TO | CUSTOMER REPRESENTATIVE | DS SUPERVISOR P. K. [illegible]

Moore® 303

CEMENTING SERVICE REPORT SUPPLEMENT LOG

DS-496-1 PRINTED IN U.S.A.

DATE 9-2-90

CUSTOMER WELL NAME AND NUMBER Pennzoil BAR-F2-5B1

LOCATION (LEGAL) Sec 5 T2S R1W

DS LOCATION Vernal

TREATMENT NUMBER 15-03-6994

PAGE 2 OF 2 PAGES

TIME 0001 to 2400	PRESSURE TBG OR D.P.	PRESSURE CASING	VOLUME PUMPED BBL INCREMENT	VOLUME PUMPED BBL CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
1035		1000	–	382	–	–	–	Shutdown Bumped Plug
1037		0		–	–	–	–	Check floats - Holding

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
BOPE TEST INSPECTION FORM

Conf.
31286

COMPANY: Pennzoil REPRESENTATIVE: Jim Jackson
Tim Rowe - Pusher

WELL NAME: BAR F1-5B1 API# 43-013- 31286

QTR/QTR SW/SE SECTION 5 WELLSIGN ~~25~~ 25 TWP ~~2S~~ RANGE 1W

INSPECTOR: John BERRIER DATE: 9-4-90

DRILLING CONTRACTOR Forwest RIG # 6

RIG OPERATIONS: Nippling up BOPE

DEPTH 2518 LAST CASING 13 3/8 @ 2517'

TEST BY Double Jack WATER ✓ MUD

PRESSURE RATING OF STACK 5000 H2S RATED yes

TEST PRESSURES 5000/ KELLYCOCK: UPPER ✓ LOWER ✓

INSIDE BOP ✓ FULL OPENING VALVE ON FLOOR ✓

WRENCH FOR FULL OPENING VALVE/KELLYCOCK ON FLOOR ✓

STACK - LISTED AS ARRANGED - TOP TO BOTTOM:

1. Drilling Head
2. Annular
3. Rams - Pipe
4. Rams Blind
5. Mud Cross.
6. Rams Pipe

ADDITIONAL COMMENTS: 5000' Csg-Head - Had Problems w/ stack took hours to Tighten To Hold. - Called out. 5:00 pm. Finish @ 10:00 AM

REPORTED BY: Jim Jackson PHONE: 722-9103

DATE: 9-5-90 SIGNED: [signature]

(IF TESTED BY INDEPENDENT COMPANY, ATTACH COPY OF TEST)

0451T

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM - DOGM FORM 6

"Confidential"

RECEIVED
SEP 13 1990
DIVISION OF
OIL, GAS & MINING

OPERATOR: Penrzoil Expl. & Prod. Co.
ADDRESS: P.O. Box 2967
Houston, Tx 77252-2967

OPERATOR CODE: N2885
PHONE NO.: 713, 546-6969

OPERATORS MUST COMPLETE FORM UPON SPUDDING NEW WELL OR WHEN CHANGE IN OPERATIONS OR INTERESTS NECESSITATES CHANGE IN EXISTING ENTITY NUMBER ASSIGNMENT.

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE
A	99999	11113	43-013-31286	Bar-F 25B1	SWSE	5	25	1W	Duchesne	8/17/90	8/17/90

COMMENTS: Fee-Lease
Field-Bluebell
Unit- N/A
Proposed Zone-WSTC
(New Entity 11113 added 9-19-90.) lcr

COMMENTS:

COMMENTS:

COMMENTS:

COMMENTS:

OIL AND GAS
DFN RJF
JRB GLH
DTS SLS
~~MICROFILM~~
2- FILE

ACTION CODES:
A - ESTABLISH NEW ENTITY FOR NEW WELL
B - ADD NEW WELL TO EXISTING ENTITY
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)
(SEE INSTRUCTIONS ON BACK OF FORM)

Elizabeth O. Taylor
SIGNATURE
Accountant
TITLE
9/12/90
DATE

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

Conf.

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

RECEIVED
SEP 26 1990
DIVISION OF
OIL, GAS & MINING

1. Well name and number: Bar-F 2-5B1
   API number: 43-013-31286

2. Well location: QQ SWSW section 5 township 2S range 1W county Duchesne

3. Well operator: Pennzoil Exploration and Production Co.
   Address: P.O. Box 290 phone: 801-353-4397
   Neola, Utah 84053

4. Drilling contractor: Forwest Inc.
   Address: 11211 Katy Freeway, Suite 530 phone: 713-932-7976
   Houston , Texas 77079

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

Depth from	Depth to	Volume (flow rate or head)	Quality (fresh or salty)
1921	1950+/-	1.5 - 2 BPM	salty

OIL AND GAS
DPN RJF
JRB GLH
DTS SLS
MICROFILM
FILE

6. Formation tops: none

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

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

Name Danny L. Laman
Title Drilling Foreman
Signature Danny L. Laman
Date 9-25-90

Comments:

From Water Flow @ 1921'
on Bar-F 2-5B1

WATER ANALYSIS REPORT

Company	: Pennzoil Co.	Date	: 9-21-90
Address	: Neola, Ut.	Date Sampled	: 8-30-90
Lease	: Bar-F	Analysis No.	: 1
Well	: 5-B1		
Sample Pt.	: ~~Well Head~~ FLOW LINE		

	ANALYSIS		mg/L		* meq/L
1.	pH	7.5			
2.	H2S				
3.	Specific Gravity	1.000			
4.	Total Dissolved Solids		15483.9		
5.	Suspended Solids				
6.	Dissolved Oxygen				
7.	Dissolved CO2				
8.	Oil In Water				
9.	Phenolphthalein Alkalinity (CaCO3)				
10.	Methyl Orange Alkalinity (CaCO3)				
11.	Bicarbonate	HCO3	195.0	HCO3	3.2
12.	Chloride	Cl	6816.0	Cl	192.3
13.	Sulfate	SO4	2750.0	SO4	57.3
14.	Calcium	Ca	600.0	Ca	29.9
15.	Magnesium	Mg	0.4	Mg	0.0
16.	Sodium (calculated)	Na	5121.3	Na	222.8
17.	Iron	Fe	1.2		
18.	Barium	Ba	0.0		
19.	Strontium	Sr	0.0		
20.	Total Hardness (CaCO3)		1500.0		

RECEIVED
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DIVISION OF
OIL, GAS & MINING

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter

30	*Ca <----- *HCO3	3
	/------->	
0	*Mg -----> *SO4	57
	<---------/	
223	*Na -----> *Cl	192

Saturation Values Dist. Water 20 C

CaCO3	13 mg/L
CaSO4 * 2H2O	2090 mg/L
BaSO4	2.4 mg/L

Compound	Equiv wt	X meq/L	= mg/L
Ca(HCO3)2	81.0	3.2	259
CaSO4	68.1	26.7	1820
CaCl2	55.5		
Mg(HCO3)2	73.2		
MgSO4	60.2	0.0	2
MgCl2	47.6		
NaHCO3	84.0		
Na2SO4	71.0	30.5	2165
NaCl	58.4	192.3	11236

REMARKS: ~~Well head~~ WATER flow at 1900+-

Petrolite Oilfield Chemicals Group

Respectfully submitted,
Preston Stewart

9-26-90

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

COMPANY: Penzoil Expl. & Prod. COMPANY MAN: Jim Jackson

WELL NAME: Bar F2-5B1 API #: 43-013-31286

QTR/QTR: SW SE SECTION: 5 TWP: 2S RANGE: 1W

CONTRACTOR: Forwest #6 PUSHER/DRLR: Tim Rowe

INSPECTOR: JLB/JWH DATE: 9-26-90 OPERATIONS: Drilling

SPUD DATE: _____ TOTAL DEPTH: 8959'

DRILLING AND COMPLETIONS

Y APD	Y WELL SIGN	Y BOPE	Y RESERVE PIT
Y FLARE PIT	Y BURN PIT	___ H2S	Y BLOOIE LINE
Y SANITATION	Y HOUSEKEEPING	___ VENTED/FLARED	

PLUGGING AND ABANDONMENT PRODUCING FM(S): _____

PLUGS:	TYPE/SIZE	INTERVAL

PERFORATIONS: _____

CASING SIZE: _____ PULLED: YES / NO CUT AT: _____

PLUGS TESTED: _____ HOW: _____ WOC: _____

MARKER: SURFACE: ___ PLATE: ___

RECLAMATION:

CONTOURED: ___ RIPPED: ___ REHAB'D: ___

LEGEND: (Y)-YES (P)-PROBLEM (U)-UNKNOWN (BLANK)-NOT APPLICABLE

REMARKS: _____

Conf

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
BOPE TEST INSPECTION FORM

COMPANY: Pennzoil REPRESENTATIVE: Jim Jackson

WELL NAME: Bar F 2-5B1 API# 43-013-31286

QTR/QTR ____ SECTION 5 WELLSIGN X TWP 2S RANGE 1West

INSPECTOR: Kubly DATE: 10/6/90

DRILLING CONTRACTOR Forwest RIG # 6

RIG OPERATIONS: Just ran Intermediate casing string

DEPTH 10,150 LAST CASING 9 5/8" @ 10,150

TEST BY Double Jack WATER yes MUD ____

PRESSURE RATING OF STACK 5000# H2S RATED no

TEST PRESSURES 5000/2500 KELLYCOCK: UPPER yes LOWER yes

INSIDE BOP yes FULL OPENING VALVE ON FLOOR yes

WRENCH FOR FULL OPENING VALVE/KELLYCOCK ON FLOOR yes

STACK - LISTED AS ARRANGED - TOP TO BOTTOM:

1. Hydril
2. pipe rams
3. blind rams
4. pipe rams
5. XO spool
6. Spacer Spool

ADDITIONAL COMMENTS: Casing head.

REPORTED BY: Jim Jackson PHONE: 722-9103

DATE: 10/6/90 SIGNED: Carol Kubly

(IF TESTED BY INDEPENDENT COMPANY, ATTACH COPY OF TEST)

0451T

1. Lower pipe rams and TIW floor valve	5000#	10 Min.
2. Upper pipe rams and dart and inside kill line and HCR	5000#	10 Min.
3. Upper pipe rams and check valve and 2nd choke line valve	5000#	10 min
4. Upper pipe ram and 3rd choke line valve	5000#	10 Min.
5. Hydril	2500#	10 Min.
6. Blind rams and chike manifold valves	5000#	10 Min.
7. 2nd set manifold chokes and swaco choke	5000#	10 Min.
8. Lower kelly	5000#	10 Min
9. Upper kelly	5000#	10 min.

C

MICROFICHE

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

COMPANY: Pennzoil Exploration & Prod Corp.

WELLNAME: BAR-F 2-5 B1 API# 43-013-31286

SW/SW SECTION: 5 TWP: 2S RANGE: 1W

INSPECTOR: John Berrier TIME: 7:45pm DATE: 10-16-90

REPRESENTATIVE: Tim Jackson PUSHER:

OPERATIONS: Drlg Ahead.

SPUD DATE: DEPTH: 11,001

DRILLING AND COMPLETIONS:

✓ APD	✓ WELL SIGN	✓ SANITATION
✓ BOPE	✓ BLOOIE LINE	✓ H2S
VENTED/FLARED	✓ RESERVE PIT	✓ FLARE PIT
✓ BURN PIT	✓ HOUSEKEEPING	

PLUGGING AND ABANDONMENTS:

PLUG TYPE	INTERVAL

PLUGS TESTED: HOW WOC

MARKER: SURFACE PLATE

RECLAMATION:

CONTOUR RIP REHAB

LEGEND: (Y)-YES (P)-PROBLEM (U)-UNKNOWN (BLANK)-NOT APPICABLE

REMARKS:

Drlg Ahead - 4 Days Since started Directional Drlg.

APPROVED BY HOW DATE

Double Jack Testing & Services Inc.

P.O. Box 516
Shoshoni, WY 82649
(307) 876-9390

FIELD TICKET 8775

DATE 10-21-00

RIG NAME & NO. [illegible]

OPERATOR [illegible]

WELL NAME & NO. [illegible]

COUNTY [illegible] STATE UT

SECTION

TOWNSHIP 23

RANGE 1 W

ITEMS TESTED	LOW TEST PSI	TIME HELD MINUTES	HIGH TEST PSI	TIME HELD MINUTES
Top Pipe Rams			5000	10
Bottom Pipe Rams			5000	10
Blind Rams			5000	10
Annular B.O.P.			5000	10
Choke Manifold			5000	10
Choke Line			5000	10
Kill Line			5000	10
Super Choke			5000	10
Upper Kelly			5000	10
Lower Kelly			5000	10
Floor Valve			5000	10
Dart Valve			5000	10

Closing Unit Psi	3000
Closing Time of Rams	[illegible]
Closing Time of Annular	[illegible]
Closed Casing Head Valve	[illegible]
Set Wear Sleeve	[illegible]

COMMENTS

ADDITIONAL TESTS & COMMENTS:

TEST PLUG [illegible]
RET. TOOL
TOP SUB. [illegible]
KELLY SUB. [illegible]
X-OVER SUB.

RATES
UNIT RATES [illegible]
ADDITIONAL
MILEAGE [illegible]
METHANOL
OTHER

SUB TOTAL [illegible]

TAX

TOTAL

J. R. [illegible]
CO. REP.

[illegible]
TESTED BY

NOTICE TO ALL CUSTOMERS

[illegible]

DOUBLE D
ENTERPRISES
POUNDS PER SQUARE INCH
GC GC-15216
6 PM
7
8
9
10
11
MIDNIGHT
1
2
3
4
5
6 AM
7
8
9
10
11
NOON

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
BOPE TEST INSPECTION FORM

COMPANY: Pennzoil REPRESENTATIVE: Jim Jackson

WELL NAME: Bar F- ~~25B1~~ 2-5B1 API# 43-013-31286

QTR/QTR SW/SE SECTION 5 WELLSIGN yes TWP 2S RANGE 1W

INSPECTOR: John Barrier/James Hargrove DATE: 10-31-90

DRILLING CONTRACTOR Forwest RIG # 6

RIG OPERATIONS: BOPE test

DEPTH 12205 LAST CASING 10,150 @ 9 5/8"

TEST BY Double Jack WATER ✓ MUD

PRESSURE RATING OF STACK 5000 H2S RATED yes

TEST PRESSURES 5000 / KELLYCOCK: UPPER ✓ LOWER ✓

INSIDE BOP ✓ FULL OPENING VALVE ON FLOOR ✓

WRENCH FOR FULL OPENING VALVE/KELLYCOCK ON FLOOR ✓

STACK - LISTED AS ARRANGED - TOP TO BOTTOM:

1. Drilling Head
2. Annular
3. Rams - Pipe
4. Rams - Blind
5. Mud cross
6. Rams - Pipe
7. Spool
8. csg head

ADDITIONAL COMMENTS: called out at 3:00am

REPORTED BY: Jim Jackson PHONE: 801-722-9103

DATE: 10-31-90 SIGNED: John Berrier James W Hargrove

(IF TESTED BY INDEPENDENT COMPANY, ATTACH COPY OF TEST)

0451T

Cont

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

COMPANY: Pennzoil

WELLNAME: Barff-2-5B1 API# 43-013-31286

SECTION: 5 TWP: 2S RANGE: 1W

INSPECTOR: John BERRIER TIME: 8:00AM DATE: 10-30-90

REPRESENTATIVE: Jim Jackson PUSHER: Jim Rowe

OPERATIONS: Drlg ahead

SPUD DATE: DEPTH: 12,112

DRILLING AND COMPLETIONS:

✓ APD	✓ WELL SIGN	✓ SANITATION
✓ BOPE	✓ BLOOIE LINE	H2S
✓ VENTED/FLARED	✓ RESERVE PIT	✓ FLARE PIT
✓ BURN PIT	✓ HOUSEKEEPING	

PLUGGING AND ABANDONMENTS:

PLUG TYPE	INTERVAL

PLUGS TESTED: HOW WOC

MARKER: SURFACE PLATE

RECLAMATION:

CONTOUR RIP REHAB

LEGEND: (Y)-YES (P)-PROBLEM (U)-UNKNOWN (BLANK)-NOT APPICABLE

REMARKS:

APPROVED BY HOW DATE

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

COMPANY: Pennzoil Expl. & Prod.

WELLNAME: Bar F 2-5B1 API# 43-013-31286

SECTION: 5 TWP: 2S. RANGE: 1W

INSPECTOR: John BERRIER TIME: 8:30 DATE: 11-13-90

REPRESENTATIVE: Jim Jackson PUSHER: John

OPERATIONS: Fishing Hast 4 Days.

SPUD DATE: DEPTH: 13,025

DRILLING AND COMPLETIONS:

✓ APD	✓ WELL SIGN	✓ SANITATION
✓ BOPE	✓ BLOOIE LINE	✓ H2S
✓ VENTED/FLARED	✓ RESERVE PIT	✓ FLARE PIT
✓ BURN PIT	✓ HOUSEKEEPING	

PLUGGING AND ABANDONMENTS:

PLUG TYPE	INTERVAL

PLUGS TESTED: HOW WOC

MARKER: SURFACE PLATE

RECLAMATION:

CONTOUR RIP REHAB

LEGEND: (Y)-YES (P)-PROBLEM (U)-UNKNOWN (BLANK)-NOT APPICABLE

REMARKS:

APPROVED BY HOW DATE

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

COMPANY: Pennzoil

WELLNAME: Bar F-5B-1 API# 43-013-31286

SECTION: 5 TWP: 2S RANGE: 1W

INSPECTOR: John Berrier TIME: 8:30A DATE: 11-15-90

REPRESENTATIVE: Jim Jackson PUSHER: Tim Rowe

OPERATIONS: Fishing

SPUD DATE: DEPTH: 13025

DRILLING AND COMPLETIONS:

✓ APD	✓ WELL SIGN	✓ SANITATION
✓ BOPE	✓ BLOOIE LINE	H2S
✓ VENTED/FLARED	✓ RESERVE PIT	✓ FLARE PIT
✓ BURN PIT	✓ HOUSEKEEPING	

PLUGGING AND ABANDONMENTS:

PLUG TYPE	INTERVAL

PLUGS TESTED: HOW WOC

MARKER: SURFACE PLATE

RECLAMATION:

CONTOUR RIP REHAB

LEGEND: (Y)-YES (P)-PROBLEM (U)-UNKNOWN (BLANK)-NOT APPICABLE

REMARKS:

APPROVED BY HOW DATE

Cmt

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

COMPANY: Pennzoil

WELLNAME: Bar F-25B1 API# 43-013-31286

SW/SE SECTION: 5 TWP: 2S RANGE: 1W

INSPECTOR: John L Berrier TIME: 6:00 pm DATE: 11-27-90

REPRESENTATIVE: Danny Lamman PUSHER: Tim Rowe

OPERATIONS: Trying to Sidetrack.

SPUD DATE: 8-17-90 DEPTH: 16,841

DRILLING AND COMPLETIONS:

✓ APD	✓ WELL SIGN	✓ SANITATION
✓ BOPE	✓ BLOOIE LINE	___ H2S
✓ VENTED/FLARED	✓ RESERVE PIT	✓ FLARE PIT
✓ BURN PIT	✓ HOUSEKEEPING	

PLUGGING AND ABANDONMENTS:

PLUG TYPE	INTERVAL

PLUGS TESTED: ___ HOW ___ WOC ___

MARKER: ___ SURFACE ___ PLATE

RECLAMATION:

___ CONTOUR ___ RIP ___ REHAB

LEGEND: (Y)-YES (P)-PROBLEM (U)-UNKNOWN (BLANK)-NOT APPICABLE

REMARKS:

Will Test BOP's Next Trip.

APPROVED BY ___ HOW ___ DATE ___

Conf.

PENNZOIL EXPLORATION AND PRODUCTION COMPANY
P. O. BOX 290 • NEOLA, UTAH 84053 • (801) 353-4397

Dec. 3, 1990

DEC 04 1990

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

RECEIVED
DEC 04 1990
DIVISION OF
OIL, GAS & MINING

Re: Monthly Drilling Reports
Bar-F 2-5B1
SWSE Sec. 5 T2S R1W
Duchesne County, Utah
API No. 43-013-31286

Gentlemen:

Enclosed, please find the original and three (3) copies of your Form 5 "Sundry Notices & Reports On Wells" for the captioned well. Pennzoil Exploration and Production Company requests these Form 5 and all related information submitted on this well be held CONFIDENTIAL for that period of time permitted by regulations and law.

Please contact the undersigned if there should be any question. (801) 353-4397

Sincerely
Pennzoil Exploration and Production Company

Danny L. Laman

Danny L. Laman

Enclosure

SCIENTIFIC DRILLING INTERNATIONAL

Client : PENNZOIL
Well Name : BAR-F 2-5B1
Location : DUCHESNE COUNTY, UTAH
: SEC. 5, T2S, R1W
: 660'FSL,1543'FEL
No Interpolation

Date 11-26-90
Filename : BAR_F

DEC 04 1990

Plane of Vertical Section : N 9.90°E
Latitude & Departure relate to : PLATFORM CENTER
Vertical Section Originates at : PLATFORM CENTER
Slot Coordinates : Lat 0.000ft
: Dep 0.000ft
Directions Referenced To : PLATFORM NORTH
Depth at Drill Floor : 0.00 ft

Calculation Method : MINIMUM CURVATURE

Magnetic Declination :+13°24.000'E
Platform north : +0° 0' 0'' (T)
Grid convergence : +0.0000°

SURVEY AT 13025' IS A PROJECTION AT TOTAL DEPTH. ALL OTHER SURVEYS WERE TAKEN FROM MULTI-SHOT OR MWD DATA

SCIENTIFIC DRILLING INTERNATIONAL

Client : PENNZOIL
Well Name : BAR-F 2-5B1
Location : DUCHESNE COUNTY, UTAH
: SEC. 5, T2S, R1W
: 660'FSL,1543'FEL

Date 11-26-90
Filename : BAR_F

DEC 04 1990

No Interpolation

M. DEPTH ft	INC deg	DIRECT'N deg	C\L ft	T V D ft	V/S ft	N/S- ft	E/W- ft	DLS °/100
10087.00	0.46	N85.83°E	0	10086.65	-47.58	-48.02	-1.60	0.00
10400.00	0.50	S37.00°E	313	10399.64	-48.21	-49.02	0.48	0.15
10442.00	1.30	N36.60°E	42	10441.64	-47.91	-48.78	0.87	3.62
10474.00	5.60	N12.70°E	32	10473.57	-46.02	-46.97	1.43	13.88
10506.00	9.10	N10.10°E	32	10505.30	-41.93	-42.95	2.22	10.98
10537.00	14.20	N 6.00°E	31	10535.66	-35.68	-36.75	3.04	16.66
10569.00	18.50	N 4.60°E	32	10566.36	-26.71	-27.78	3.86	13.49
10600.00	22.20	N 5.30°E	31	10595.42	-15.97	-17.05	4.80	11.96
10631.00	25.60	N 7.40°E	31	10623.75	-3.44	-4.57	6.20	11.30
10662.00	29.40	N 7.80°E	31	10651.25	10.86	9.62	8.10	12.27
10692.00	33.10	N 8.10°E	30	10676.89	26.42	25.03	10.25	12.34
10720.00	36.40	N 8.80°E	28	10699.89	42.37	40.81	12.60	11.87
10751.00	39.60	N 9.50°E	31	10724.32	61.45	59.65	15.64	10.42
10782.00	43.10	N 9.90°E	31	10747.58	81.93	79.83	19.09	11.32
10813.00	47.70	N10.60°E	31	10769.34	103.99	101.55	23.02	14.93
10844.00	53.50	N10.60°E	31	10789.01	127.94	125.08	27.43	18.71
10876.00	58.40	N 9.90°E	32	10806.92	154.44	151.17	32.14	15.42
10907.00	64.20	N10.20°E	31	10821.81	181.62	177.93	36.89	18.73
10938.00	66.20	N10.20°E	31	10834.81	209.76	205.62	41.87	6.45
10969.00	66.00	N10.20°E	31	10847.37	238.10	233.52	46.89	0.64
11001.00	66.40	N10.20°E	32	10860.28	267.38	262.33	52.07	1.25
11033.00	67.50	N10.20°E	32	10872.81	296.82	291.31	57.29	3.44
11062.00	68.60	N10.20°E	29	10883.65	323.72	317.78	62.05	3.79
11095.00	69.00	N 9.90°E	33	10895.58	354.49	348.08	67.42	1.48
11126.00	69.20	N10.20°E	31	10906.64	383.45	376.59	72.47	1.11
11158.00	69.10	N 9.90°E	32	10918.03	413.35	406.04	77.69	0.93
11190.00	69.10	N10.20°E	32	10929.45	443.25	435.48	82.91	0.88
11220.00	69.20	N 9.90°E	30	10940.13	471.28	463.08	87.80	0.99
11251.00	68.70	N10.20°E	31	10951.26	500.21	491.57	92.85	1.85
11282.00	68.80	N10.20°E	31	10962.50	529.10	520.00	97.97	0.33
11313.00	68.70	N10.20°E	31	10973.73	558.00	548.44	103.08	0.33
11343.00	68.80	N10.20°E	30	10984.60	585.96	575.96	108.03	0.34
11373.00	69.00	N10.60°E	30	10995.40	613.94	603.49	113.09	1.41
11405.00	69.30	N10.90°E	32	11006.79	643.84	632.87	118.66	1.2[illegible]
11436.00	69.30	N10.90°E	31	11017.75	672.84	661.34	124.15	0.[illegible]
11468.00	68.90	N10.20°E	32	11029.17	702.73	690.73	129.62	
11499.00	68.30	N10.60°E	31	11040.48	731.59	719.12	134.83	
11527.00	68.30	N10.90°E	28	11050.83	757.60	744.68	139.6[illegible]	
11560.00	69.40	N10.20°E	33	11062.74	788.38	774.93	145.[illegible]	
11621.00	71.30	N 9.90°E	61	11083.25	845.82	831.50	155.3[illegible]	

SCIENTIFIC DRILLING INTERNATIONAL

Client : PENNZOIL
Well Name : BAR-F 2-5B1
Location : DUCHESNE COUNTY, UTAH
: SEC. 5, T2S, R1W
: 660'FSL,1543'FEL

Date 11-26-90
Filename : BAR_F

DEC 04 1990

No Interpolation

M. DEPTH ft	INC deg	DIRECT'N deg	C\L ft	T V D ft	V/S ft	N/S- ft	E/W- ft	DLS °/100
11650.00	70.80	N10.20°E	29	11092.67	873.25	858.51	160.13	1.98
11682.00	70.40	N 9.50°E	32	11103.30	903.43	888.24	165.29	2.41
11714.00	69.40	N 9.90°E	32	11114.29	933.49	917.86	170.35	3.34
11745.00	69.00	N 9.50°E	31	11125.30	962.46	946.43	175.24	1.77
11776.00	69.10	N 9.50°E	31	11136.39	991.41	974.98	180.02	0.33
11808.00	70.40	N 9.20°E	32	11147.46	1021.43	1004.60	184.89	4.16
11840.00	71.90	N 9.20°E	32	11157.80	1051.72	1034.50	189.73	4.69
11871.00	71.80	N 9.20°E	31	11167.46	1081.17	1063.58	194.44	0.33
11903.00	71.70	N 9.20°E	32	11177.48	1111.56	1093.58	199.30	0.32
11935.00	71.80	N 9.90°E	32	11187.50	1141.95	1123.55	204.34	2.10
11967.00	71.80	N10.20°E	32	11197.49	1172.35	1153.48	209.65	0.89
11999.00	72.00	N11.30°E	32	11207.44	1202.76	1183.36	215.32	3.33
12031.00	71.90	N11.30°E	32	11217.35	1233.18	1213.20	221.28	0.32
12063.00	71.70	N11.60°E	32	11227.35	1263.56	1242.99	227.32	1.09
12094.00	71.80	N12.00°E	31	11237.05	1292.99	1271.81	233.34	1.27
12125.00	71.70	N11.60°E	31	11246.76	1322.41	1300.63	239.36	1.27
12156.00	72.00	N11.60°E	31	11256.42	1351.86	1329.48	245.28	0.97
12188.00	72.40	N12.00°E	32	11266.20	1382.31	1359.31	251.51	1.73
12219.00	72.40	N12.00°E	31	11275.57	1411.84	1388.21	257.66	0.00
12251.00	72.10	N11.60°E	32	11285.33	1442.30	1418.04	263.89	1.52
12283.00	72.00	N12.00°E	32	11295.19	1472.72	1447.84	270.12	1.23
12314.00	72.00	N12.30°E	31	11304.77	1502.18	1476.66	276.32	0.92
12346.00	72.20	N12.00°E	32	11314.61	1532.61	1506.43	282.73	1.09
12377.00	72.30	N12.30°E	31	11324.06	1562.11	1535.30	288.94	0.98
12407.00	72.60	N12.30°E	30	11333.10	1590.69	1563.24	295.04	1.00
12439.00	72.80	N12.30°E	32	11342.62	1621.22	1593.09	301.55	0.62
12471.00	72.40	N12.30°E	32	11352.19	1651.72	1622.93	308.05	1.25
12501.00	72.80	N12.70°E	30	11361.16	1680.32	1650.88	314.25	1.84
12532.00	72.50	N12.30°E	31	11370.40	1709.88	1679.77	320.65	1.57
12563.00	73.00	N12.70°E	31	11379.60	1739.46	1708.67	327.06	2.03
12595.00	73.30	N13.00°E	32	11388.87	1770.04	1738.53	333.87	1.30
12627.00	73.30	N13.00°E	32	11398.07	1800.65	1768.39	340.77	0.00
12658.00	73.80	N13.00°E	31	11406.85	1830.33	1797.36	347.45	1.61
12689.00	73.80	N12.70°E	31	11415.49	1860.06	1826.39	354.07	0.93
12720.00	73.90	N13.40°E	31	11424.12	1889.80	1855.39	360.80	2.19
12751.00	73.80	N13.40°E	31	11432.74	1919.52	1884.36	367.70	0.33
12782.00	74.10	N13.40°E	31	11441.31	1949.25	1913.34	374.60	0.97
12809.00	73.90	N13.00°E	27	11448.75	1975.16	1938.61	380.53	1.61
12843.00	74.00	N13.00°E	34	11458.15	2007.79	1970.44	387.88	0.30
12874.00	73.80	N13.40°E	31	11466.75	2037.53	1999.44	394.68	1.40

SCIENTIFIC DRILLING INTERNATIONAL

Client : PENNZOIL
Well Name : BAR-F 2-5B1
Location : DUCHESNE COUNTY, UTAH
: SEC. 5, T2S, R1W
: 660'FSL,1543'FEL

Date 11-26-90
Filename : BAR_F

No Interpolation

M. DEPTH ft	INC deg	DIRECT'N deg	C\L ft	T V D ft	V/S ft	N/S- ft	E/W- ft	DLS °/100
12906.00	73.60	N13.40°E	32	11475.73	2068.18	2029.32	401.80	0.62
12937.00	73.40	N13.80°E	31	11484.54	2097.84	2058.21	408.79	1.40
12968.00	73.50	N13.80°E	31	11493.37	2127.49	2087.07	415.88	0.33
13025.00	73.50	N13.80°E	57	11509.55	2182.02	2140.14	428.91	0.00

Origin of Bottom Hole Closure PLATFORM CENTRE
Bottom Hole Closure 2183 ft N11.33°E

SURVEY AT 13025' IS A PROJECTION AT TOTAL DEPTH. ALL OTHER SURVEYS WERE TAKEN FROM MULTI-SHOT OR MWD DATA

DEC 04 1990

SCIENTIFIC DRILLING INT'L.
SURVEY CALCULATION REPORT
ver - 1.27A

Company: PENNZOIL
Location: DUCHESNE COUNTY, UTAH
Field: BLUEBELL
Declination: 13.00
Operator: SCIENTIFIC DRILLING INT.
Time: Mon Oct 01 16:57:56 1990
Filename: POILMULT
Comments: MULTISHOT

Probe #: 2115
Section Plane: 0.00
Well no: BAR F # 2-5B1
Vertical Section Origin:
North: 0.00 East : 0.00

Depth Units -> FEET

Data Source (D.S.) types : (Manually entered data starts with '*')

CS - CHAMP Singleshot	MS - Magnetic SS	TD - Total Depth
CM - CHAMP Multishot	MM - Magnetic MS	TI - Tiein Point
CC - CHAMP Compensated	MW - M.W.D.	
GS - Gyro Singleshot	PR - Projection	
GM - Gyro Multishot	ST - Steering Tool	

DEC 04 1990

Calculation Method - Minimum Curvature
**** RECORD OF SURVEY ****

Measured Depth	Inc (deg)	Azimuth (deg)	TVD	TOTAL Rec Coordinates		Vertical Section	Dogleg Severity	D.S.
0.0	0.00	0.00	0.0	0.0N	0.0E	0.0	0.00	*TI
2657.0	0.46	292.32	2657.0	4.0N	9.8W	4.0	0.02	CM
2749.0	0.20	186.71	2749.0	4.0N	10.2W	4.0	0.59	CM
2842.0	0.03	140.49	2842.0	3.8N	10.2W	3.8	0.19	CM
2934.0	0.55	249.90	2934.0	3.7N	10.6W	3.7	0.62	CM
3027.0	0.25	190.31	3027.0	3.3N	11.0W	3.3	0.52	CM
3119.0	0.46	276.35	3119.0	3.1N	11.4W	3.1	0.55	CM
3212.0	0.17	320.96	3212.0	3.3N	11.9W	3.3	0.39	CM
3304.0	0.44	214.49	3304.0	3.1N	12.2W	3.1	0.56	CM
3397.0	0.45	187.39	3397.0	2.4N	12.4W	2.4	0.22	CM
3489.0	0.28	188.98	3489.0	1.9N	12.5W	1.9	0.19	CM
3582.0	0.15	144.56	3582.0	1.6N	12.5W	1.6	0.22	CM
3674.0	0.37	269.83	3674.0	1.5N	12.7W	1.5	0.51	CM
3767.0	0.25	206.57	3767.0	1.3N	13.1W	1.3	0.37	CM
3859.0	0.57	232.34	3859.0	0.8N	13.5W	0.8	0.39	CM
3951.0	0.14	206.95	3951.0	0.4N	14.0W	0.4	0.48	CM
4044.0	0.39	257.49	4044.0	0.3N	14.3W	0.3	0.35	CM
4136.0	0.29	171.63	4136.0	0.0S	14.6W	-0.0	0.51	CM
4229.0	0.31	257.13	4228.9	0.3S	14.8W	-0.3	0.44	CM
4321.0	0.20	216.96	4320.9	0.5S	15.2W	-0.5	0.22	CM
4414.0	0.62	229.05	4413.9	1.0S	15.6W	-1.0	0.46	CM
4496.0	0.48	188.62	4495.9	1.6S	16.0W	-1.6	0.49	CM
4599.0	0.91	212.36	4598.9	2.7S	16.5W	-2.7	0.49	CM
4691.0	0.47	185.71	4690.9	3.7S	16.9W	-3.7	0.58	CM
4784.0	0.54	157.18	4783.9	4.5S	16.8W	-4.5	0.28	CM
4876.0	0.63	202.84	4875.9	5.4S	16.8W	-5.4	0.50	CM
4969.0	0.45	167.92	4968.9	6.2S	17.0W	-6.2	0.39	CM
5061.0	0.81	191.07	5060.9	7.2S	17.0W	-7.2	0.46	CM
5154.0	0.92	175.34	5153.9	8.6S	17.1W	-8.6	0.28	CM
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	CM

SCIENTIFIC DRILLING INT'L.

Company: PENNZOIL
Declination: 13.00
Filename: POIL MULT

Section Plane: 0.00
Time: Mon Oct 01 16:57:56 1990
Depth Units -> FEET

Calculation Method - Minimum Curvature

**** RECORD OF SURVEY ****

Measured Depth	Inc (deg)	Azimuth (deg)	TVD	TOTAL Rec Coordinates		Vertical Section	Dogleg Severity	D.S.
5339.0	0.57	199.22	5338.9	10.8S	17.0W	-10.8	0.36	CM
5431.0	0.57	197.79	5430.9	11.6S	17.3W	-11.6	0.02	CM
5524.0	0.39	193.38	5523.9	12.4S	17.5W	-12.4	0.20	CM
5616.0	0.85	153.46	5615.9	13.3S	17.2W	-13.3	0.66	CM
5709.0	0.62	191.47	5708.9	14.4S	17.0W	-14.4	0.57	CM
5801.0	1.02	178.78	5800.9	15.7S	17.1W	-15.7	0.47	CM
5894.0	0.78	156.88	5893.8	17.1S	16.8W	-17.1	0.44	CM
5986.0	0.96	178.40	5985.8	18.5S	16.6W	-18.5	0.40	CM
6079.0	0.35	175.87	6078.8	19.5S	16.5W	-19.5	0.66	CM
6171.0	0.82	171.07	6170.8	20.5S	16.4W	-20.5	0.51	CM
6263.0	0.39	143.65	6262.8	21.4S	16.1W	-21.4	0.56	CM
6356.0	0.84	139.46	6355.8	22.2S	15.5W	-22.2	0.49	CM
6448.0	1.02	165.16	6447.8	23.5S	14.8W	-23.5	0.49	CM
6541.0	0.94	165.67	6540.8	25.0S	14.4W	-25.0	0.08	CM
6633.0	1.01	163.96	6632.8	26.5S	14.0W	-26.5	0.08	CM
6726.0	0.69	140.99	6725.8	27.7S	13.5W	-27.7	0.49	CM
6818.0	0.94	175.68	6817.8	28.9S	13.1W	-28.9	0.59	CM
6911.0	0.96	166.86	6910.7	30.4S	12.8W	-30.4	0.16	CM
7003.0	0.27	190.37	7002.7	31.4S	12.7W	-31.4	0.78	CM
7096.0	0.33	98.31	7095.7	31.6S	12.5W	-31.6	0.47	CM
7188.0	0.38	191.77	7187.7	32.0S	12.3W	-32.0	0.57	CM
7281.0	0.24	132.88	7280.7	32.4S	12.2W	-32.4	0.35	CM
7373.0	0.70	136.33	7372.7	33.0S	11.6W	-33.0	0.50	CM
7466.0	0.33	135.92	7465.7	33.6S	11.1W	-33.6	0.39	CM
7558.0	0.87	147.19	7557.7	34.3S	10.5W	-34.3	0.60	CM
7651.0	0.84	129.09	7650.7	35.4S	9.6W	-35.4	0.29	CM
7743.0	0.43	130.32	7742.7	36.0S	8.8W	-36.0	0.44	CM
7836.0	0.65	140.08	7835.7	36.6S	8.2W	-36.6	0.25	CM
7928.0	0.27	130.43	7927.7	37.2S	7.7W	-37.2	0.42	CM
8021.0	0.50	191.82	8020.7	37.7S	7.6W	-37.7	0.47	CM
8113.0	0.62	195.99	8112.7	38.6S	7.8W	-38.6	0.14	CM
8206.0	0.64	206.37	8205.7	39.5S	8.2W	-39.5	0.12	CM
8298.0	1.13	182.38	8297.7	40.9S	8.5W	-40.9	0.65	CM
8391.0	0.81	188.99	8390.7	42.5S	8.6W	-42.5	0.36	CM
8483.0	0.49	143.96	8482.7	43.4S	8.5W	-43.4	0.63	CM
8575.0	0.14	147.12	8574.7	43.8S	8.2W	-43.8	0.38	CM
8668.0	0.27	264.08	8667.7	44.0S	8.4W	-44.0	0.38	CM
8760.0	0.43	144.78	8759.7	44.3S	8.4W	-44.3	0.66	CM
8853.0	0.39	112.18	8852.7	44.7S	7.9W	-44.7	0.25	CM
8945.0	0.37	114.96	8944.6	44.9S	7.3W	-44.9	0.03	CM

SCIENTIFIC DRILLING INT'L.

Company: PENNZOIL
Declination: 13.00
Filename: POILMULT

Section Plane: 0.00
Time: Mon Oct 01 16:57:56 1990
Depth Units -> FEET

Calculation Method - Minimum Curvature

**** RECORD OF SURVEY ****

Measured Depth	Inc (deg)	Azimuth (deg)	TVD	TOTAL Rec Coordinates		Vertical Section	Dogleg Severity	D.S.
9038.0	0.24	109.34	9037.6	45.1S	6.9W	-45.1	0.15	CM
9130.0	0.04	156.61	9129.6	45.2S	6.7W	-45.2	0.23	CM
9223.0	0.09	234.32	9222.6	45.3S	6.7W	-45.3	0.09	CM
9315.0	0.15	51.95	9314.6	45.2S	6.7W	-45.2	0.25	CM
9408.0	0.42	92.19	9407.6	45.2S	6.3W	-45.2	0.35	CM
9500.0	0.46	150.39	9499.6	45.5S	5.7W	-45.5	0.47	CM
9593.0	0.67	87.97	9592.6	45.8S	5.0W	-45.8	0.66	CM
9685.0	0.47	112.49	9684.6	45.9S	4.1W	-45.9	0.34	CM
9778.0	0.76	99.33	9777.6	46.2S	3.2W	-46.2	0.34	CM
9870.0	0.41	158.15	9869.6	46.6S	2.4W	-46.6	0.71	CM
9962.0	0.45	166.48	9961.6	47.2S	2.2W	-47.2	0.08	CM
10055.0	0.50	138.50	10054.6	47.9S	1.9W	-47.9	0.25	CM
10087.0	0.46	85.83	10086.6	48.0S	1.7W	-48.0	1.34	CM
CLOSURE:	Distance	-	48.03					
	Direction	-	181.98					

DEC 04 1990

DOGM FORM 5

state of Utah
DEPARTMENT OF NAT. RESOURCES
DIVISION OF OIL, GAS AND MINING

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

DEC 04 1990

2. NAME OF OPERATOR: PENNZOIL EXPLORATION & 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: 660' FSL & 1543' FEL

DEC 04 1990

DIVISION OF OIL, GAS & MINING

14. PERMIT NO.: 43-013-31286

15. ELEVATIONS (Show whether DF, RT, GR, etc.): KB = 5414'

5. LEASE DESIGNATION AND SERIAL NO.: FEE LAND

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: BAR-F

9. WELL NO.: 2-5B1

10. FIELD AND POOL, OR WILDCAT: BLUEBELL

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 5 T2S SWSE R1W

12. COUNTY OR PARISH: DUCHESNE

13. STATE: UTAH

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

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

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

- Monthly Operation Reports from Aug. 7, 1990 to Oct. 1, 1990.

- Spudded @ 9:00 AM on Aug. 17, 1990 with Martin Rathole Machine.
- Set 20" 96# Conductor pipe, Set at 121' from ground level. Cement with 6 bags per yard of ready mix to the surface.
- MIRU Forwest # 6 and spud at 6:00 AM on 8-26-90.
- Drill a 17 1/2" hole to 2518'.
- Encountered Water flow @ 1921' TO 1950'; Flowing @ 1.5 - 2 bpm; Kill water flow with a 11.3 ppg. mud.
- Ran 57 jts. of 13 5/8" 54.5/61# HC-80/K-55 STC, set and cemented at 2517'.
- Cement 13 3/8" csg. with 1510 sks. 35/65 Poz and 450 sks class "G", Circulated 595 sks cement, No fall back. Bump plug @ 10:30 AM on 9-30-90.
- Nipple up and test BOPs to 5000 psi. (OK), Test 13 3/8" casing to 1500 psi. (OK) on Sept. 5, 1990
- Drill out float collar, cement, and guide shoe, and 15' of formation to 2532"; Run formation test to a 14.5 ppg. EMW (OK).
- Drill a 12 1/4" hole to 10,150' to TD. with 9.3 ppg. mud weight and a 40 vis.
- Run a Multishot Survey from 10,087' to 2,657'.(See attached survey plot).

-Reports to be continuied:

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

SIGNED [signature] TITLE Office (801) 353-4397 Drilling Foreman DATE 12-3-90

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

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

Copy

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

COMPANY: Pennzoil

WELLNAME: Bar F-2-5B3 API# 43-013-31256

SECTION: 5 TWP: 2S RANGE: 1W

INSPECTOR: John Berrier TIME: 8:30 AM DATE: 12-5-90

REPRESENTATIVE: Jim Jackson PUSHER: Tim Rowe

OPERATIONS: POH Prep to Ream and Clean out

SPUD DATE: 8-17-90 DEPTH: 11,816

DRILLING AND COMPLETIONS:

✓ APD	✓ WELL SIGN	✓ SANITATION
✓ BOPE	✓ BLOOIE LINE	___ H2S
___ VENTED/FLARED	✓ RESERVE PIT	✓ FLARE PIT
✓ BURN PIT	✓ HOUSEKEEPING	

PLUGGING AND ABANDONMENTS:

PLUG TYPE	INTERVAL

PLUGS TESTED: ___ HOW ___ WOC ___

MARKER: ___ SURFACE ___ PLATE

RECLAMATION:

___ CONTOUR ___ RIP ___ REHAB

LEGEND: (Y)-YES (P)-PROBLEM (U)-UNKNOWN (BLANK)-NOT APPICABLE

REMARKS:

APPROVED BY ___ HOW ___ DATE ___

Comp

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

COMPANY: Pennzoil Expl & Prod.

WELLNAME: Bar-F 25 B1 API# 43-013-31286

SW/SE SECTION: 5 TWP: 2S RANGE: 1W

INSPECTOR: John BERRIER TIME: 11:05 DATE: 1-15-91

REPRESENTATIVE: Don PUSHER:

OPERATIONS: Trip in w/New Bit

SPUD DATE: 8-17-90 DEPTH: 12,375

DRILLING AND COMPLETIONS:

✓ APD	✓ WELL SIGN	✓ SANITATION
✓ BOPE	✓ BLOOIE LINE	H2S
✓ VENTED/FLARED	✓ RESERVE PIT	✓ FLARE PIT
✓ BURN PIT	✓ HOUSEKEEPING	

PLUGGING AND ABANDONMENTS:

PLUG TYPE	INTERVAL

PLUGS TESTED: HOW WOC

MARKER: SURFACE PLATE

RECLAMATION:

CONTOUR RIP REHAB

LEGEND: (Y)-YES (P)-PROBLEM (U)-UNKNOWN (BLANK)-NOT APPICABLE

REMARKS:

APPROVED BY HOW DATE

DOGM FORM 5

state of Utah
DEPARTMENT OF NAT. RESOURCES
DIVISION OF OIL, GAS AND MINING

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

2. NAME OF OPERATOR: PENNZOIL EXPLORATION & 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: 660 ' FSL & 1543' FEL

5. LEASE DESIGNATION AND SERIAL NO.: FEE LAND

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: BAR-F

9. WELL NO.: 2-5B1

10. FIELD AND POOL, OR WILDCAT: BLUEBELL

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SWSE Sec. 5 T2S R1W

12. COUNTY OR PARISH: DUCHESNE

13. STATE: UTAH

14. PERMIT NO.: 43-013-31286

15. ELEVATIONS (Show whether DF, RT, GR, etc.): KB = 5414'

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

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

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

- Monthly Operation Report from Sept. 2, 1990 to Nov. 30, 1990

- Log well with Haliburton Logging Service; Run - DLL 10138'-2516', GR 10138'-surface, LSS 10138'-5000', FACT 10136'-2516', and FWS 10,136'-5000'.
- Run 238 jts. of 9 5/8" 53.50#/47#/43.5# P-110/N-80 LTC for a total lenght of 10,168' and a DVT set at 7,759. Set and cement 9 5/8" casing at 10,150'.
- Cement first stage with 490 sks. 50/50 Poz. "G" and 450 sks. Class "G". Bump plug at 3:10 PM on 10-5-90; Open DVT and circulate for second stage cement.
- Cement second stage with 1425 sks. Hilift, 1140 sks. 50/50 Poz. "G", and 100 sks. Class "G". Circulated 150 bbls cement. Bump DVT at 3:00 AM On 10-6-90.
- Set casing slips and nipple up BOPs, Test BOPs to 5000 psi. (OK), Test 9 5/8" casing to 5000 psi. (OK) on Sept. 6, 1990
- Drill out DVT, Retest casing to 5000 psi. (OK); Drill out float collar, cement, float shoe, and formation to 10,154'; Run formation test to a 15 ppg. EMW. (OK).
- Drill a 8 1/2" hole to kick off point at 10,430'.
- Pickup angle build assembly and drill a 8 1/2'" hole at a 12 degree per 100' to end of curve at 10,969'MD. Continue drilling a 8 1/2" hole to 13,025' MD at 71 degrees plus or minus and a direction of N9.90E plus. (SEE ATTACHED SURVEY PLOT FOR DETAILED SURVEYS)
- Test BOPs to 5000 psi. (OK) on Nov. 1, 1990
- At 13,025'MD attempt to clean hole of solids bedding with a bullnose assembly. Lost FISH (1 jt. 4 1/2" Spiral heavy weight pipe, 6 1/4" bit sub, and 6 1/4" Bullnose total lenght of 30.41') in hole at 12,015'.
- Attempt to recover fish , unsuccessful; attempt to drill over top of fish, unsuccessful.
- Test BOPs. to 5000 psi. (OK) on Nov. 29, 1990.
- Sidetrack hole at 11,744' on Nov. 30, 1990.

- Reports to be continuied:

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

SIGNED [signature] TITLE Office = (801) 353-4397 Drilling Foreman DATE 12-3-90

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

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

SCIENTIFIC DRILLING INTERNATIONAL

Customer : PENNZOIL COMPANY
Well Name : BAR-F #2-5B1
Location : DUCHESNE COUNTY, UTAH
: SEC. 5, T2S, R1W
SHL :

Date 1/06/91
Filename : BAR_F_ST

No Interpolation

Plane of Vertical Section : N 9.90°E
Latitude & Departure relate to : PLATFORM CENTER
Vertical Section Originates at : PLATFORM CENTER
Slot Coordinates : Lat 0.000ft
: Dep 0.000ft
Directions Referenced To : PLATFORM NORTH
Depth at Drill Floor : 0.00 ft

Calculation Method : MINIMUM CURVATURE

Magnetic Declination :+13° 0.000'E
Platform north : +0° 0' 0'' (T)
Grid convergence : +0.0000°

SCIENTIFIC DRILLING INTERNATIONAL

Customer : PENNZOIL COMPANY
Well Name : BAR-F #2-5B1
Location : DUCHESNE COUNTY, UTAH
: SEC. 5, T2S, R1W
SHL :

Date 1/06/91
Filename : BAR_F_ST

No Interpolation

M. DEPTH ft	INC deg	DIRECT'N deg	C/L ft	T V D ft	V/S ft	N/S- ft	E/W- ft	DLS °/100
11560.00	69.40	N10.20°E	0	11062.77	788.33	774.89	145.31	0.00
11640.00	74.10	N 9.90°E	80	11087.82	864.29	849.68	158.56	5.89
11686.00	73.10	N 9.90°E	46	11100.80	908.42	893.15	166.15	2.17
11719.00	72.20	N 9.90°E	33	11110.64	939.91	924.18	171.56	2.73
11751.00	72.20	N10.20°E	32	11120.43	970.38	954.18	176.88	0.89
11784.00	72.20	N10.20°E	33	11130.51	1001.80	985.10	182.45	0.00
11815.00	72.00	N10.20°E	31	11140.04	1031.30	1014.14	187.67	0.64
11846.00	72.30	N10.20°E	31	11149.54	1060.81	1043.18	192.89	0.97
11878.00	72.20	N10.60°E	32	11159.30	1091.28	1073.15	198.40	1.23
11910.00	71.90	N10.60°E	32	11169.16	1121.72	1103.08	204.00	0.94
11942.00	71.40	N11.30°E	32	11179.24	1152.09	1132.90	209.77	2.60
11974.00	71.20	N11.30°E	32	11189.50	1182.39	1162.62	215.70	0.62
12006.00	70.80	N11.10°E	32	11199.91	1212.64	1192.30	221.58	1.38
12036.00	70.90	N10.90°E	30	11209.75	1240.98	1220.12	226.99	0.71
12068.00	70.70	N11.60°E	32	11220.28	1271.19	1249.76	232.88	2.16
12090.00	70.40	N12.00°E	22	11227.60	1291.92	1270.06	237.13	2.19
12121.00	70.10	N11.60°E	31	11238.08	1321.08	1298.62	243.09	1.55
12151.00	70.00	N12.00°E	30	11248.32	1349.27	1326.23	248.86	1.30
12184.00	69.70	N11.60°E	33	11259.68	1380.23	1356.55	255.19	1.46
12215.00	69.70	N12.00°E	31	11270.44	1409.29	1385.01	261.14	1.21
12247.00	69.40	N11.60°E	32	11281.62	1439.25	1414.36	267.27	1.50
12279.00	69.10	N11.60°E	32	11292.96	1469.17	1443.68	273.29	0.94
12321.00	68.80	N12.00°E	42	11308.04	1508.34	1482.05	281.30	1.14
12353.00	68.70	N13.00°E	32	11319.64	1538.13	1511.16	287.76	2.93
12384.00	68.90	N10.90°E	31	11330.85	1567.02	1539.44	293.74	6.35
12415.00	68.70	N13.00°E	31	11342.06	1595.90	1567.71	299.73	6.35
12446.00	68.90	N10.20°E	31	11353.28	1624.78	1596.02	305.54	8.45
12477.00	68.70	N 9.50°E	31	11364.49	1653.68	1624.49	310.48	2.20
12538.00	68.90	N10.90°E	61	11386.55	1710.55	1680.46	320.55	2.16
12599.00	69.00	N11.60°E	61	11408.46	1767.47	1736.30	331.66	1.08
12629.00	68.90	N12.70°E	30	11419.23	1795.44	1763.67	337.55	3.44
12660.00	68.80	N13.40°E	31	11430.42	1824.31	1791.83	344.08	2.13
12728.00	68.80	N13.80°E	68	11455.01	1887.58	1853.45	358.99	0.55
12759.00	68.80	N13.80°E	31	11466.22	1916.41	1881.52	365.88	0.00
12790.00	68.10	N14.10°E	31	11477.61	1945.17	1909.51	372.83	2.43
12821.00	68.10	N14.10°E	31	11489.17	1973.86	1937.40	379.84	0.00
12851.00	67.70	N14.10°E	30	11500.46	2001.58	1964.36	386.61	1.33
12883.00	67.10	N14.10°E	32	11512.75	2031.04	1993.01	393.81	1.88
12914.00	66.90	N14.10°E	31	11524.87	2059.50	2020.69	400.76	0.64
12945.00	66.60	N14.10°E	31	11537.10	2087.91	2048.31	407.70	0.97

SCIENTIFIC DRILLING INTERNATIONAL

Customer : PENNZOIL COMPANY
Well Name : BAR-F #2-5B1
Location : DUCHESNE COUNTY, UTAH
: SEC. 5, T2S, R1W
SHL :

Date 1/06/91
Filename : BAR_F_ST

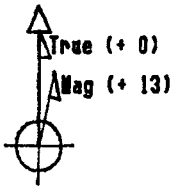
No Interpolation

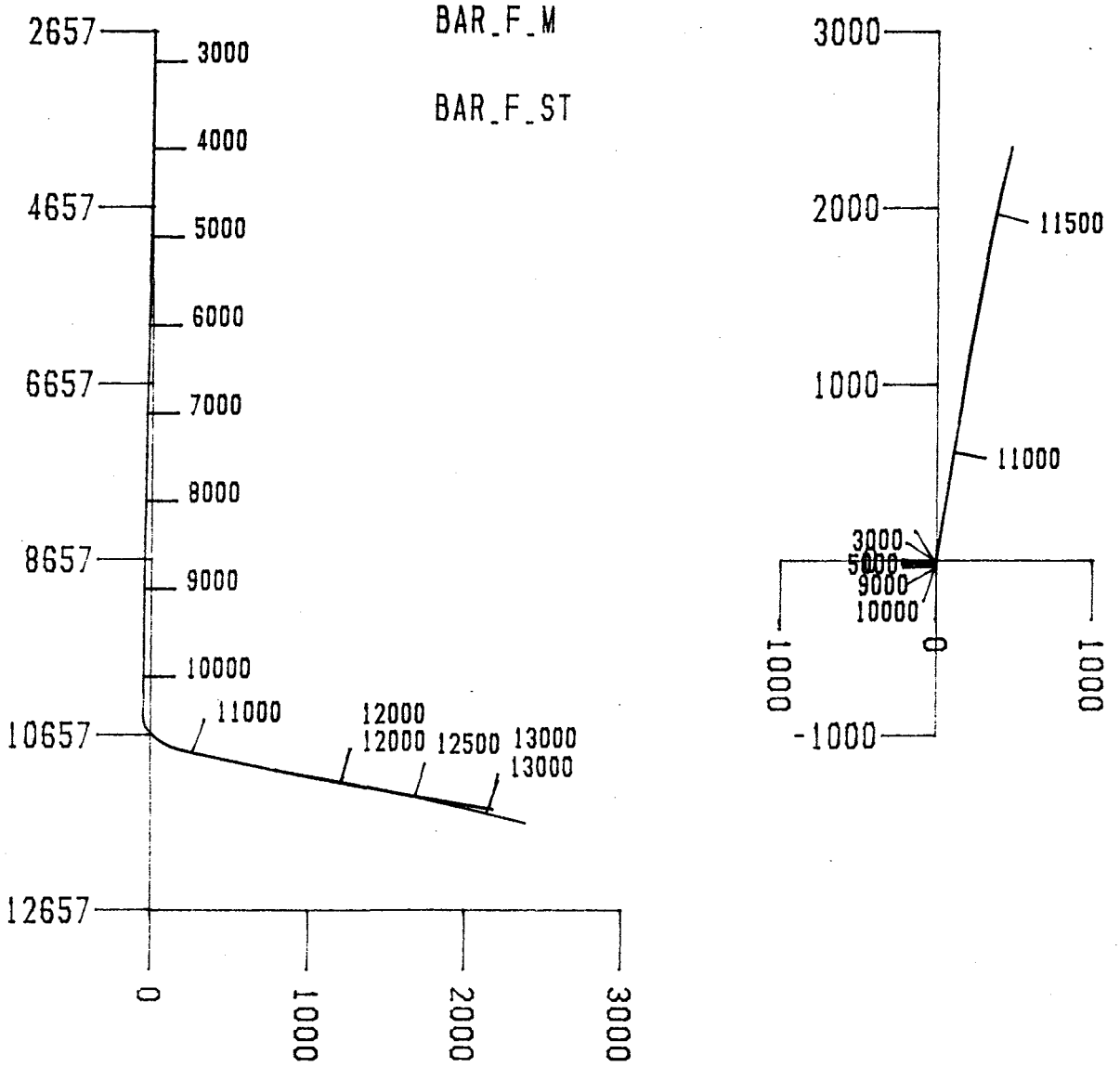
M. DEPTH ft	INC deg	DIRECT'N deg	C/L ft	T V D ft	V/S ft	N/S- ft	E/W- ft	DLS °/100
12976.00	66.50	N13.80°E	31	11549.44	2116.28	2075.91	414.55	0.94
13007.00	66.40	N14.10°E	31	11561.83	2144.62	2103.49	421.41	0.94
13038.00	66.10	N14.10°E	31	11574.31	2172.92	2131.01	428.32	0.97
13069.00	65.90	N14.80°E	31	11586.92	2201.15	2158.44	435.38	2.16
13100.00	65.60	N14.80°E	31	11599.65	2229.31	2185.76	442.60	0.97
13132.00	65.50	N15.20°E	32	11612.90	2258.33	2213.90	450.14	1.18
13164.00	65.00	N14.50°E	32	11626.29	2287.28	2241.99	457.59	2.53
13196.00	64.90	N15.50°E	32	11639.84	2316.15	2269.99	465.10	2.85
13275.00	64.90	N15.50°E	79	11673.36	2387.35	2338.93	484.21	0.00

Origin of Bottom Hole Closure PLATFORM CENTRE
Bottom Hole Closure 2389 ft N11.70°E

SCIENTIFIC DRILLING INTERNATIONAL
FOR
PENNZOIL COMPANY
BAR-F 2-5B1
DUCHESNE COUNTY, UTAH
IN
SEC. 5, T2S, R1W
BY STEVE COCHRAN
CASPER, WYOMING

All Directions Rel to Local North





PLANE OF VERT SECTn N09.90E

PLOT DATE 1-08-1991

TARGET DETAILS

No	TVD	Lat	Dep

BOTTOM HOLE LOCATION

MD	TVD	V/S	INC.	DIR.	N/S	E/W
13196.00	11639.84	2316.15	64.90	N15.50E	2269.99N	465.10E

CASING DETAILS

No	Size	TVD	MD

SCIENTIFIC DRILLING INTERNATIONAL

CASPER, WYOMING

PENNZOIL COMPANY

Well Name	: BAR-F #2-5B1
Location	: DUCHESNE COUNTY, UTAH
	: SEC. 5, T2S, R1W
SHL	:
Date	: 1/06/91
Job No.	: 41D1090124
Directional Driller	: STEVE COCHRAN

This survey is correct to the best of my knowledge
and is supported by actual field data.

..... COMPANY REPRESENTATIVE

LLOYD C. FELTON, JR.
GEOLOGIC CONSULTING
376 "G" Street Salt Lake City, Utah 84103 (801) 359-1560

RECEIVED
JAN 15 1991
DIVISION OF
OIL, GAS & MINING

January 9, 1990

Utah Oil, Gas & Mining
355 West North Temple
Suite 350
Salt Lake City, Utah 84180

Dear Sir/Madam:

Enclosed please find one copy of the final geologic report for the Pennzoil Bar-F 2-5B1, located in Section 5, T2S, R1W, in Duchesne County, Utah to complete your files. If you have any questions, feel free to give me a call.

Sincerely,

Lloyd C. Felton, Jr.

enclosure

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Depth vs "Dc" exponent Graph

Appendix 4 - Summary of Multi-Shot Survey
provided by Scientific Drilling
International 10-01-90
2500-10087

Appendix 5A - Summary of Directional Surveys
provided by Scientific Drilling
International 11-26-90
10,087-13,025

Appendix 5B - Summary of Directional Surveys
provided by Scientific Drilling
International 01-05-91
10,087-13,300 (sidetrack hole)

Appendix 6 - Pennzoil Distribution Sheet

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WELL SUMMARY - BAR-F 2-5B1

OPERATOR:	Pennzoil Company
LEASE:	Bar-F 2-5B1
LOCATION:	Field: Bluebell-Altamont Legal: SW/4 SE/4 (surface location) 600' FSL and 1543' FEL Section 5, T2S, R1W SE/4 NE/4 (bottom hole location) 2389' FNL and 1060' FEL County: Duchesne County, Utah
ELEVATION:	Ground Level: 5387' Kelly Bushing: 5414'
SPUD DATE:	6:00 AM AUGUST 26, 1990
CEASE DRILLING:	9:00 PM JANUARY 4, 1990
CASING PROGRAM:	Surface Casing: set @ 2517' 1465.73' - 13 3/8" 54.5# K-55 STC 1022.87' - 13 3/8" 61# S-80 STC Intermediate Casing: set @ 10150' 1700.70' - 9 5/8" 53.5# P-110 LTC 7833.92' - 9 5/8" 47# N-80 LTC 586.58' - 9 5/8" 43.5# P-110 LTC Production Liner: set to TD @ 13275'
MUD PROGRAM:	Mud Company: M-I Drilling Fluids Inc. Mud Engineers: Ken Bascum, Phil McClure Mud Type: Water: surface - 7548 Poly Plus G: 7548 - 11078 Poly Plus K: 11078 - 13275
SAMPLE PROGRAM:	Caught 10' samples 4800 - TD Examined: 4800-TD by mud loggers verified by wellsite geologist Mud Logging Company: Datalog Western 24-hour - 2-man unit 4800-TD FID total gas detection FID chromatograph analysis Mud Loggers: Larry Gunther, Howard Warren
DRILLING CONTRACTOR:	Forwest Rig 6 Toolpushers: Tim Roe, John Arndt Drillers: Jeff Duncan, Keith McClure, Tom Myron, James Arthur, Tim Heins

DIRECTIONAL DRILLERS:	Scientific Drilling International Directional Drillers: Steve Cochran, Ken Walker
MWD:	Teleco Field Engineers: John McDiarmid, Matt Peckler, Dennis Hartwig
ELECTRIC LOGGING:	Halliburton Logging Services Run 1: Engineer: Randy Friday Log Suite: Dual Laterolog - SP 2514 - 10136 Microguard 8642 - 10136 Gamma Ray 200 - 10136 Long-Spaced Sonic 5000 - 10131 Full-Wave Sonic 5000 - 10131 Four-Arm Caliper 2516 - 10131
WELLSITE SUPERVISOR:	Jim Jackson, Mike Anthony, Donnie Snapp, Danny Laman
WELLSITE GEOLOGIST:	Lloyd Felton

GEOLOGIC SUMMARY - BAR-F 2-5B1

The Pennzoil Company drilled the Bar-F 2-5B1 well in the SW/4 SE/4 Section 5, T2S, R1W in Duchesne County, Utah as a test of drilling and completing a high angle directional well in the Bluebell-Altamont Field.

The well was projected to penetrate Wasatch pay zones to a depth of 12,100′ TVD (measured depth 15,200′). To increase the potential of encountering open fractures in productive Wasatch sand intervals in an area of known thick sands, the well was proposed to drill the Wasatch section 10,800-11,950 TVD at an inclination of 71° and in a direction N 10° E. This drilling procedure would result in a bottom hole location in the SE/4 NE/4, section 5.

Drilling operations were curtailed at 13,275 (11,673 TVD) and the angle of inclination was not held at 71° due to complications. Open hole logs were not run from 10,150-13,275 because of hole conditions at TD. Once production liner has been set and cemented, cased hole logs will be run in order to select perforations for the completion.

The Bar-F 2-5B1 encountered 5,230′ of the Uinta and Duchesne formations, approximately 4,960′ of Green River formation, and 3,085′ of the Wasatch formation. Corrected for the deviation of the wellbore, the actual thickness of the Wasatch section penetrated is 1,483′ below the TU2 horizon.

A water flow of approximately two barrels per minute was encountered in the Uinta formation at a depth of 1,929′. This flow required 11.5+ pounds per gallon mud to control. The Green River and Wasatch formations provided at least 38 distinguishable oil and gas shows from predominantly lacustrine and marginal lacustrine sandstone, siltstone, and limestone reservoirs.

The Green River formation is composed of interbedded limestone, dolomite, sandstone, and shale punctuated at regular intervals by volcanic tuffs which provide good correlation points for electric log evaluation. Many of the competent horizons in the Green River exhibit significant fracturing. Some of these fractures have been healed with crystalline calcite, while others remain partially or fully open, thus enhancing low primary porosity in productive beds.

Limestone in the upper Green River section of the Bar-F 2-5B1 well above the DS2 marker at 8,576′ may be light brown, cream, off-white, and tan in color. It is primarily soft and argillaceous, and cryptocrystalline to microcrystalline in texture. In that section, it does not appear to be the source of any shows in the Bar-F 2-5B1 well. Below the DS2 marker to the top of the Wasatch, limestone becomes more varied in color ranging from dark brown and dark gray-brown to light brown, tan, gray-green, gray, and white.

Limestone continues to be soft to firm and have a significant clay fraction. Texture is microcrystalline to crypto-crystalline. There were five shows in the Green River below the DS2 marker which originate in limestones. Four of the five shows displayed a sample cut accompanying the gas increase. However, only two of the show samples exhibited any fracture filling.

Dolomite in the Green River section of the Bar-F 2-5B1 well is generally light to dark brown in color, but also may be found in tan, cream, gray-brown, black, light gray, and light green. It is argillaceous and cryptocrystalline frequently exhibiting crystalline calcite fracture filling. Five of the shows in the Green River section of the Bar-F 2-5B1 can be identified in dolomitic zones; however, only three of these zones had a sample cut in the dolomite accompanying the gas increase.

Sandstone in the Bar-F 2-5B1 well is an important constituent of the upper Green River though the Tg2 marker at 6,084′. Sands in this section are generally cream, off-white, light gray, and tan in color, are moderately clean, friable to well cemented, and are very-fine to fine grained.

The first show in the Green River in the Bar-F 2-5B1 is in a sandstone section at 6,105′and featured abundant black asphaltic oil along with the gas increase. The Parachute Creek and Mahogany Bench Members have minor sandstone beds which are poorly sorted with a silty calcareous matrix. The only other sandstones in the Green River section of the Bar-F 2-5B1 are in the I and CP70 sections. A poorly sorted, silty sand zone at 9,866′ had an oil and gas show.

Shale in the Green River section of the Bar-F 2-5B1 makes up a substantial portion of the geologic record. Although it is probably not productive in the Bluebell-Altamont field, it does provide the seal for most of the productive zones in the field. Furthermore, the color of the shale may help to define the environment of deposition of the sandstones, limestones, and dolomites which may be productive.

In the upper Green River section of the Bar-F 2-5B1, the shales are predominantly brown, ochre-yellow, red-brown, gray-green, and light green. These represent a fluvial-marginal environment of deposition. Below the Tg1 marker at 5,868′ and continuing to approximately 6,260′, the shales tend to be lighter and more consistent in color ranging from light gray to gray-green and occasionally tan. These colors reflect a small transgressive shift to the shallow marginal lacustrine environment of deposition. From 6,260′ to 6,390′ the fluvial ochre-yellow is the dominant shale color implying a small regressive shift. A transgressive shift at 6,390′ to 6,440′ is suggested by the decrease in ochre and brown and the relative increase in light gray. In the following table, the rest of the Green River has been assigned an environment of deposition based on shale color.

Interval	Environment of Deposition
6,440-6,490′	Fluvial
6,490-6,880′	Lacustrine
6,880-6,940′	Fluvial
6,940-7,030′	Lacustrine
7,030-7,150′	Marginal
7,150-7,210′	Lacustrine
7,210-7,300′	Marginal
7,300-7,470′	Lacustrine
7,470-7,560′	Fluvial
7,560-10,190′	Lacustrine

The Wasatch formation represents an influx of clastic sediments into Lake Uinta which originate in the Uinta Mountains to the north. Across the Bluebell-Altamont field the Wasatch formation is commonly manifested as a red wedge of fluvial sediments which are transgressed by dark shales of a deep lacustrine environment. However, the location of the Bar-F 2-5B1 was chosen to miss the redbeds which are more common to the north, and yet, still penetrate an optimum section of potentially productive marginal lacustrine sands. The Bar-F 2-5B1 did not encounter any redbeds in the Wasatch section; therefore, the environments of deposition for the Wasatch formation in the Bar-F 2-5B1 are suggested to be lacustrine and marginal. Listed below are the interval sections and the corresponding environments of deposition for the Wasatch section.

Interval	Environment of Deposition
10,190-10,680′	Lacustrine
10,680-10,720′	Marginal
10,720-10,835′	Lacustrine
10,835-11,000′	Marginal
11,000-11,070′	Lacustrine
11,070-11,150′	Marginal
11,150-11,210′	Lacustrine
11,210-11,250′	Marginal
11,250-11,370′	Lacustrine
11,370-11,590′	Marginal
11,590-11,650′	Lacustrine
11,650-12,100′	Marginal
12,100-12,120′	Lacustrine
12,120-12,170′	Marginal
12,170-12,200′	Lacustrine
12,200-12,290′	Marginal
12,290-12,370′	Lacustrine
12,370-12,470′	Marginal
12,470-12,730′	Lacustrine
12,730-12,750′	Marginal
12,750-12,770′	Lacustrine
12,770-13,275′	Marginal

The Wasatch contributed 26 show zones, all of which appeared to come from sandstones. Sandstones in the Wasatch section of the Bar-F 2-5B1 are generally light in color, often poorly cemented to unconsolidated, with subangular to subrounded commonly frosted quartz grains.

Of the 25 show zones identified, 20 come from sandstone zones. Eleven of these had noticeable oil shows at the surface either in the form of an increase in oil over the shaker and/or a sample cut. The remaining nine zones did not have oil shows accompanying the gas increase. However, seven of the nine shows with no oil in the samples included sands in the samples which were very friable or completely unconsolidated. Any oil in those sands would probably have been washed out while circulating them out of the hole.

Five of the Wasatch shows occurred in limestone sections, and all of them appeared to be gas shows only. No oil or sample cut accompanied any of those shows. Three of the five shows had evidence of fracturing and calcite filled fractures. Most of the limestone in the Wasatch section is argillaceous or silty, and could be better characterized as marlstones.

Included in this report is a list of potentially productive zones in the Green River section; these are in the interval logged prior to running intermediate casing. These zones meet one of the following criteria: either they had hydrocarbon shows during drilling or they have low gamma values, high resistivity, and some porosity. Since the section of the hole below intermediate casing was not logged prior to running liner, no evaluation can be made of the Wasatch except over the intervals which provided hydrocarbon shows. Please refer to the mud log provided by Datalog/Western for a detailed description of the samples which were examined and described by the mudloggers and verified continuously by the geologist.

FORMATION TOPS - BAR-F 2-5B1

picked from Dual Laterolog - Microguard
Run 1 dated 10-2-90
KB 5414, GL 5387

FORMATION	DEPTH	SUBSEA	STRUCTURAL COMPARISON TO HATCH 1-5B1
Green River	5230	+184	+145
GR/Tg1	5868	-454	+ 57
GR/Tg2	6084	-670	+ 54
GR/Tgm	6431	-1017	+ 54
GR/Z	6601	-1187	+ 49
GR/Evacuation Creek	6689	-1275	+ 50
GR/Z2	6794	-1380	+ 49
GR/Trona1	7120	-1706	+ 42
GR/Parachute Creek	7702	-2288	+ 61
GR/Mahogany Bench	7772	-2358	+ 58
GR/DJ	8288	-2874	+ 49
GR/DS	8521	-3107	+ 40
GR/DS2	8576	-3162	+ 39
GR/DS4	8690	-3276	+ 55
GR/DS5a	8833	-3419	+ 55
GR/H	9006	-3592	+ 55
GR/HI	9274	-3860	+ 34
GR/HI1	9416	-4002	+ 39
GR/HI2	9518	-4104	+ 50
GR/I	9632	-4218	+ 54
GR/CP70	9934	-4520	+ 53
GR/TU2 (sample top)	10190	-4776	+ 54

POTENTIALLY PRODUCTIVE ZONES IN THE GREEN RIVER - BAR-F 2-5B1

6000-6005	8959-8962
6051-6059	9028-9046
6097-6123	9054-9106
6136-6140	9122-9125
6490-6494	9160-9171
6535-6538	9204-9212
6553-6555	9276-9311
6620-6624	9319-9329
6654-6662	9356-9366
6894-6898	9376-9384
6902-6906	9427-9437
6938-6940	9443-9451
6952-6958	9458-9461
7056-7070	9470-9476
7232-7247	9482-9487
7370-7374	9503-9506
7913-7926	9568-9574
8023-8040	9580-9596
8604-8620	9628-9631
8771-8778	9684-9688
8825-8830	9791-9816
8858-8862	9828-9831
8869-8880	9880-9884
8907-8910	9888-9892
8929-8931	9942-9987

SIGNIFICANT SHOWS - BAR-F 2-5B1

SHOW #	INTERVAL & FORMATION	SAMPLE DESCRIPTION	SHOW SUMMARY & REMARKS
1	6105-6109 GR/Tg2	30% SS, lt gy-lt brn, clr, s&p, m srt, vf-fgr, sbang-sbrd, mw cmt-fri, dull gold flor, v fast strmg cut. 40% DOLO, lt-m brn, gybrn, frm-hd, blky-sbblky, micxln-crpxln, m-v arg, sme carb incl, tr pyr, NSFC. 20% SH, m-lt gy, gygn, frm, blky-sbplty, pred mass, slty & aren, dol ip. 10% SH, och-lt brn, frm, sbblky-sbplty, slty ip, prob cvgs.	Abundant black asphaltic oil accompanied gas increase from 12 unit background to a peak of 255 units. Oil decreased to a trace following the show.
2	7056-7066 GR/Z2	60% DOLO, dk gy-vdk gybrn, blk, frm-hd, plty-sbblky, micxln, occ crpxln, dns, arg ip, tr dull gold flor, fair strmg yel cut. 20% LS, med-lt brn, frm-hd, chlky ip, crpxln-micxln, v arg, grdg to SH, NSFC. 20% SH, lt brn-brn, yelbrn-och, sft, sbblky-mas, slty ip, occ aren, tr pyr, sl calc.	Very slight increase in black oil with increase in gas from 20 unit background to 331 unit peak.
3	7412-7418 GR/Tronal	80% DOLO, vdk gybrn-dk gybrn, occ gybrn, frm, blky-sbblky, micxln, dns, m-v arg, tr pyr, dull orng flor, fair yel strmg cut. 20% LS, lt-m brn, sme lt gy, frm-hd, sbblky-sbplty, dns, micxln-crpxln, v arg, sme wh calc xln frac fill, NSFC.	No noticeable increase in oil with show. Gas increase over 95 unit background to 968 unit peak came up with connection gas.
4	8023 GR/Mahogany Bench	90% DOLO, lt gy, lt gygn, lt gybrn-gybrn, sme buf, frm-v hd, blky-sbblky, micxln-vfxln, aren ip, tr dism pyr, tr wh calc frac fill, tr gold-yel flor, poor strmg cut. 10% SS, wh-buf, lt gy, m-w srt, vf-fgr, sbang-sbrd, m-w cmt, dol, calc, & cly mtx, no vis por, tr carb incl, NSFC.	No noticeable increase in oil. Gas increased over a background of 31 units to a peak of 198 units.
5	8606-8615 GR/DS2	90% LS, lt gybrn-dk gybrn, wh, dk gy, frm, occ sft, sbblky-sbplty, crpxln, v arg, carb ip, tr wh calc frac fill, sme dull gold flor, slow mlky yel cut. 10% DOLO, dk gybrn-dk brn, frm-sft, crpxln, v arg ip, dull gold flor, slow mlky yel cut.	Minor show. No increase in oil. Gas increased from background of 30 units to a peak of 94 units.

SIGNIFICANT SHOWS - BAR-F 2-5B1

SHOW #	INTERVAL & FORMATION	SAMPLE DESCRIPTION	SHOW SUMMARY & REMARKS
6	8775-8780 GR/DS4	40% DOLO, dk gybrn-vdk brn, hd, blky-sbblky, micxln-crpxln, dns, pred v arg, NSOFC. 30% LS, dk gybrn-dk brn, frm-sft, crpxln-micxln, chlky ip, carb ip, v arg, tr wh calc frac fill, NSOFC. 30% SH, blk, dk gy, hd-frm, splty-ang, slty ip, tr pyr.	No sample show. No noticeable increase in oil. Gas increased from 51 units background to a peak of 132 units.
7	9212-9216 GR/H	50% DOLO, dk gy-dk gybrn, occ gy, frm-hd, blky-sbplty, crpxln-micxln, v arg, abnt wh calc frac fill, sl orng-yel flor, wk mlky yel cut. 50% LS, lt gy-gy, gybrn, frm-sft, blky-sbplty, crpxln-micxln, tr wh calc frac fill, tr pyr, NSFC.	Considerable bit bounce and torque while drilling this interval. No increase in oil. Gas increased from 51 units background to a peak of 369 units.
8	9374-9382 GR/HI	70% LS, gybrn-lt gy, sft, blky-sbplty, crpxln, clky, v arg, tr vfxln wh calc frac fill, no flor, v sli resid yel cut. 30% DOLO, dk brn-vdk brn, occ blk, hd-m hd, blky-sbplty, crpxln, dns, sme v carb, arg, tr calc frac fill, no flor, v sli resid yel cut.	No noticeable increase in oil. Gas increased from a background of 61 units to a peak of 296 units. Mud cut: 9.3 in/9.2 out.
9	9474-9481 GR/HI1	70% DOLO, dk brn-vdk gybrn, blk, frm-hd, blky-fiss, sme sbplty, crpxln, v arg, v carb, tr calc frac fill, no flor, v wk mlky resid cut. 30% LS, lt gy-gybrn, wh-lt gy, sft-occ hd, blky-sbblky, crpxln-micxln, sme vf xln, chlky, v arg, NSFC.	Very slight increase in black oil. Gas increased from a background of 84 units to a peak of 351 units. Mud cut: 9.3 in/9.2 out.
10	9508-9512 GR/HI1	70% DOLO, dk gybrn-blk, sft-frm, blky, sme sbplty-fiss, crpxln-micxln, v arg, grdg to sh, tr wh xln frac fill, NSOFC. 30% LS, gybrn-lt brn, brn, sft-frm, blky, crpxln-vfxln, chlky, v arg, NSOFC.	No noticeable increase in oil. Gas increased from a background of 97 units to a peak of 262 units.

SIGNIFICANT SHOWS - BAR-F 2-5B1

SHOW #	INTERVAL & FORMATION	SAMPLE DESCRIPTION	SHOW SUMMARY & REMARKS
11	9568-9576 GR/HI2	50% SH, dk gybrn-gybrn, frm-m hd, sbblky-blky, slty, abnt dism pyr, occ dol, occ lam. 30% DOLO, dk brn-blk, sft-m frm, occ hd, blky-plty, crpxln-micxln, v arg, grdg to sh, NSOFC. 20% LS, lt gybrn, buf, sft-frm, sbblky-rnd, crpxln, chlky-smth, v arg, grdg to calc sh, NSOFC.	**No noticeable increase in oil.** Gas increased from a background of 127 units to a peak of 644 units.
12	9578-9584 GR/HI2	80% SH, dk gybrn-gybrn, frm-hd, sbblky-blky, slty ip, lam, abnt dism pyr, sl dol ip, tr wh xln calc frac fill, no flor, v wk strmg yel cut. 20% LS, buf-lt gybrn, sft-frm, sbblky-rnd, crpxln, chlky-smth, v arg, occ slty, NSFC.	**No noticeable increase in oil.** Gas increased from a background of 576 units to a peak of 1,164 units.
13	9871-9889 GR/I	80% SH, dk brn-blk, tr lt gy, frm, blky-sbplty, slty, sl calc & dol, tr wh calc frac fill, tr pyr. 10% LS, lt gy, dk brn, frm, blky-ang, micxln, sl aren, chlky ip, m arg, NSOFC 10% SS, buf, clr, dk brn-blk, lt gybrn, vf-fgr, sbang-sbrd, m srt, mw cmt, v slty, calc cmt, v sl yel flor, wk strmg yel cut.	**Slight increase in black oil over shaker.** Gas increased from a background of 1,104 units to a peak of 2,558 units.
14	10189-10195 GR/TU2	80% SH, v dk brn-blk, sft-v sft, sbblky-rnd, pred mass, slty, sme dism pyr, v sl calc. 20% LS, lt gybrn, frm-sft, sbblky-rnd, crpxln, chlky, m-v arg, no flor, v sl strmg yel cut.	**Very slight increase in black oil over shaker.** Gas increased from a background of 82 units to a peak of 1,467 units.
15	10246-10259 Wasatch	90% SS, clr-fros, v fgr, sbang-sbrd, occ ang, pred fri, w srt, sl calc cmt, sme carb incl, pale yel flor, slo strmg yel cut. 10% SH, v dk brn-blk, sft, blky, slty, v calc.	**No noticeable increase in oil over shaker.** Gas increased from a background of 206 units to a peak of 599 units.

SIGNIFICANT SHOWS - BAR-F 2-5B1

SHOW #	INTERVAL & FORMATION	SAMPLE DESCRIPTION	SHOW SUMMARY & REMARKS
16	10373-10376	**40% SH**, v dk brn, gybrn-blk, sft-frm, sbblky-rnd, slty ip, mass, tr dism pyr, m-v calc. **30% LS**, brn-lt brn, sft-v sft, blky, v arg, slty, crpxln, chlky, NSOFC. **30% SS**, clr, fros, buf, v f-fgr, sbang-sbrd, pred uncons, occ fri w/ calc cmt, w-m srt, NSOFC.	**No noticeable increase in oil over shaker.** Gas increased from a background of 140 units to a peak of 432 units. Mud cut: 10.2 in, 10.1 out.
17	10384-10388	**100% SS**, clr, buf, v f-fgr, sbrd-rnd, uncons-occ fri, occ calc cmt, abnt brn oil stn, scat dull gold flor, wk strmg yel cut.	**Slight film of dark green oil over shaker.** 20 bbl gain in volume. Shut in well. SIDPP 1120#, SICP 1140#. 30' flare thru gas buster. Gas increased from a background of 161 units to a peak of 3,736 units. Mud cut: 12.2 in, 9.8 out.
18	10513	**70% SS**, brn-dk brn, gybrn, f-v fgr, sbang-ang, m-p srt, v slty & arg, abnt calc cmt, no vis por, NSOFC. **20% LS**, brn-lt brn, sft, crpxln, chlky, v arg, grdg to calc sh, NSOFC. **10% SH**, dk brn, frm-v hd, blky-sbblky, slty, mass, sme wh xln calc frac fill, scat dull gold flor, tr slo strmg yel cut.	**Very slight amount of dark green oil over shaker.** Gas increased from a background of 546 units to a peak of 981 units.
19	10571-10588	**90% SS**, clr, wh, fros, s&p, v f-fgr, rnd-sbrd, fri-vw cmt, sme hd & tt, m srt, slty ip, calc cmt, tr ost fos scat yel flor, pr mlky yel cut. **10% SH**, dk gybrn-blk, frm-hd, plty-splty, sme fiss, slty & sl aren ip, tr ost fos.	**Slight film of waxy green oil over shaker.** Shut in well & stop circ. to check flow. Showed a 1" flow. Gas increased from a background of 265 units to a peak of 3,305 units. Mud cut: 12.2 in/9.4 out.
20	10676-10679	**100% SH**, dk gybrn-blk, frm-hd, sbblky-rnd, slty, calc, occ fos frag, tr wh xln calc frac fill, NSOFC. tr **SS**, clr, wh, fgr, sbrd-sbang, mw cmt, m-p srt, slty & arg, calc cmt, no vis por, NSOFC.	**Very slight amount of dark green oil over shaker.** 5' flare thru gas buster. Gas increased from a background if 513 units to a peak of 3,584 units. Mud cut: 12.5 in/12.0 out.
21	10674-10684	**80% SH**, dk gybrn-blk, frm-hd, sbblky-rnd, slty, mass-lam, tr wh-lt brn xln calc frac fill. **20% LS**, wh-dk brn, sft-hd, rnd-blky, micxln, ip lam w/ sh, sme grdg to calc sh, NSOFC.	**No increase in oil.** Gas increased from a background of 542 units to a peak of 3,584 units.

SIGNIFICANT SHOWS - BAR-F 2-5B1

SHOW #	INTERVAL & FORMATION	SAMPLE DESCRIPTION	SHOW SUMMARY & REMARKS
22	11038-11040	80% SS, wh-buf, crm, tan, f-v fgr, sbang-sbrd, mw srt, mw cmt w/ calc cmt, no vis por, no flor, v sl wk mlky yel cut. 10% SH, blk, frm-hd, sbblky-splty, carb ip, slty. 10% SH, lt gn-gygn, frm-hd, sbblky, smth, wxy, sl calc.	Trace of dark green oil over shaker. Gas increased from a background of 370 units to a peak of 1,077 units.
23	11058-11068	80% SS, clr, fros, wh, occ s&p, m-w srt vf-f gr, sbrd-sbang, fri-w cmt, calc cmt, no flor, v wk mlky resid cut. 10% LS, wh-lt gy, sft-frm, blky, crpxln, chlky, sl arg. 10% SH, gygn-dk gy, sft-frm, blky, slty, sl calc, tr wh xln calc frac fill.	Trace of dark green oil across shaker. Gas increased from a background of 211 units to a peak of 1,027 units.
24	11446-11456	60% SH, blk, dk gy, frm-hd, blky-sbplty, sl-m calc, slty ip. 20% SS, wh, clr, pred w srt, vf-f gr, fri-m cmt, pred calc cmt, NSOFC. 20% LS, wh-lt gy, crm, sft-frm, blky, crpxln-micxln, chlky, aren ip.	No increase in oil accompanied show. Gas increased from a background of 354 units to a peak of 750 units.
25	12148-12158	60% LS, dk gybrn, dk gy, sft, blky, mass, micxln, chlky, v arg, NSOFC. 20% SH, dk gybrn-dk gy, sft, blky, slty ip, bent, calc, tr wh xln calc frac fill. 10% SH, lt gygn-lt gy, sft-frm, blky, slty, sl calc.	No increase in oil accompanied show. Gas increased from a background of 160 units to a peak of 637 units. Mud cut: 13.1 in/12.7 out.
26	12448-12494	50% SS, lt gy-wh, crm, m-w srt, vf-f gr, sbang-ang, pred uncons fros qtz grs, occ calc cmt, NSOFC. 40% SH, gy-lt gy, frm, blky, slty & aren ip, sl calc. 10% SH, blk-dk gy, frm-v frm, blky-splty, slty ip, sl-m calc.	Slight film of green oil across shaker. Gas increased from a background of 202 units to a peak of 2,069 units. Mud cut: 13.0 in/12.7 out.
27	12562-12563	40% SH, gy-gybrn, frm-hd, sbblky-blky, slty ip, v calc. 30% SS, wh-lt gy, m-w srt, vf-f gr, pred uncons clr-fros sbrd-sbang qtz grs, sme calc cmt, NSOFC. 20% SH, lt gy-crm lt gn, frm-hd, slty ip sl calc. 10% SH, blk, frm-hd, blky-splty, slty, sl calc.	No noticeable increase in oil accompanied show. Gas increased from a background of 360 units to a peak of 1,724 units.

SIGNIFICANT SHOWS - BAR-F 2-5B1

SHOW #	INTERVAL & FORMATION	SAMPLE DESCRIPTION	SHOW SUMMARY & REMARKS
28	12627-12632	50% SH, gy-gybrn, sft-frm, sbblky-blky, slty, v calc. 40% SH, lt gy, hd-frm, sbblky-sbplty, slty & aren, sl calc, tr wh xln calc frac fill. 10% SH, blk-v dk gy, frm-v frm, splty-sbblky, sl slty, sl-m calc. TR SS, wh-lt gy, vf-f gr, sbrd-sbang, m-w srt, m cmt-fri, calc cmt, NSOFC.	Very slight amount of dark green oil across shaker. Gas increased from a background of 384 units to a peak of 3,840 units. Mud cut: 13.2 in/12.8+ out.
29	12864-12876	40% SH, blk-v dk gy, frm-hd, blky-sbblky, slty, sl calc. 40% SH, lt gy-lt gygn, gygn, frm-hd, slty, sl aren ip, sl calc. 20% SS, dk gy, lt gy, f-m gr, sme vf gr, sbang-ang, p-m srt, m cmt-fri, abnt calc cmt, slt & cly mtx, tr dull gold min flor, NSOC.	Very slight increase in dark green oil across shaker. Gas increased over a background of 430 units to a peak of 3,392 units. Mud cut: 13.2 in/11.0 out.

**********SIDETRACK HOLE**********

SIGNIFICANT SHOWS - BAR-F 2-5B1

SHOW #	INTERVAL & FORMATION	SAMPLE DESCRIPTION	SHOW SUMMARY & REMARKS
24A	12154-12159	60% SH, lt gy-gy, v sft-sft, sme frm, blky, mass, slty, occ aren, v calc. 20% SH, blk-dk gy, frm, sbblky-plty, ip mass, occ slty, calc. 20% SS, gy-lt gy, offwh, v f-f gr, sbrd-sbang, m-p srt, m cmt, slty, m-v arg, calc cmt, NSOFC.	**No increase in oil accompanying show.** Gas increased from a background of 26 units to a peak of 50 units. This zone correlates to a zone in the original hole 12114-12122, which displayed a slight increase in gas too small to be logged as a show.
25A	12183-12186	40% SH, blk-v dk gy, hd, blky-sbblky, mass, sl calc. 60% SH, lt gy, gygn, sft-frm, blky-sbblky, v bent,sl-m calc, slty ip, tr dism pyr.	**No noticeable increase in oil with show.** Gas increased from a background of 30 units to a peak of 178 units. This zone correlates with show #25 in the original hole @ 12148-12158.
26A	12430-12468	60% SH, gy-dk gy, occ dk gybrn, sft-frm, blky, mass, slty & aren ip, sl bent, m-v calc. 20% SH, lt gy-gygn, sft-frm, blky, slty ip, calc. 10% SH, blk, frm-hd, blky-splty, calc. 10% SS, lt gy-crm, m-w srt, vf gr, sbang-sbrd, fri-w cmt, sme slt mtrx, calc cmt, NSOFC.	**No noticeable increase in oil with show.** Gas increased from a background of 64 units to a peak of 137 units. This zone correlates with show #26 in the original hole @ 12448.
26B	12510-12513	40% SS, lt gy-wh, m srt, vf-f gr, sbang, m cmt-fri, calc cmt & slt mtrx, NSOFC. 20% SH, v dk gy, frm-hd, blky, mass slty ip, sl calc. 40% SH, lt gy-gy, sft-frm, blky, sl slty, sl bent, sl calc, tr wh xln calc frac fill.	**No noticeable increase in oil with show.** Gas increased over a background of 62 units to a peak of 92 units. There was no show in the original hole which correlates with this zone.
27A	12537-12542	50% SH, lt gy-gy, frm-sft, blky-sbblky, sl slty, tr bent, m-v calc. 30% SH, blk-v dk gy, frm-v frm, blky-sbblky, sl slty, m calc. 20% SS, lt gy-wh, w-m srt, vf-f gr, sbang-ang, m slty ip, calc cmt, NSOFC.	**No noticeable increase in oil accompanying show.** Gas increased over a background of 85 units to a peak of 105 units. This zone correlates with show #27 in the original hole @ 12562.

SHOW #	INTERVAL & FORMATION	SAMPLE DESCRIPTION	SHOW SUMMARY & REMARKS
28A	12568-12574	60% SH, lt gy-gy, frm-sft, blky, mass, slty, bent ip, m-v calc. 20% SS, lt gy, crm, m-w srt, vf-f gr, sbang-sbrd, uncons-m cmt, slty ip, calc cmt, NSOFC. 20% SH, blk-dk gy, frm-hd, blky-sbblky, slty ip, m calc.	No noticeable increase in oil accompanying show. Gas increased over a background of 89 units to a peak of 113 units. This zone correlates with show 28 in the original hole @ 12627. Mud cut: 13.8 in/13.7+ out.
28B	12632-12656	80% SH, gy-lt gy, occ dk gybrn, sft, blky-sbblky, mass, bent ip, m-v calc, tr dism pyr. 10% LS, lt brn, wh, crm, sft, chlky, micxln, NSOFC. 10% SS, lt gy-wh, m-w srt, vf-f gr, sbang-ang, pred fri, abnt fros-clr lse qtz grs, occ calc cmt, NSOFC.	No noticeable increase in oil accompanying show. Gas increased over a background of 77 units to a peak of 318 units. There was no show in the original hole to correlate with this zone. Mud cut: 13.8 in/13.7 out.
29A	12848-12860	80% SH, lt gy-gy, occ gybrn, sft, blky, sl slty, bent ip, m-v calc. 20% SS, wh-lt gy, m-w srt, vf-f gr, sbang-ang, fri-occ sl calc cmt, pred uncons fros-clr qtz grs, NSOFC.	No noticeable increase in oil accompanying show. Gas increased over a background of 130 units to a peak of 333 units. This show correlates with show #29 in the original hole @ 12864.
30	12913-12915	70% SH, gy-lt gy, sft-frm, blky, m-v calc. 20% SS, lt gy-crm, wh, pred p srt, vf-c gr, sbang-ang, fri-m cmt, sme slt mtrx and calc cmt, tr pyr, NSOFC 10% LS, crm-wh, lt gy, sft, chlky-crpxln, sme wh xln calc frac fill, NSOFC.	Slight film of green waxy oil over shaker with show. Gas increased over a background of 159 units to a peak of 1,443 units. Lost 315 bbl mud following show #30. Mud cut: 13.7+ in/12.7 out.
31	13034-13037	40% SS, lt gy-wh, m srt, vf-f gr, ang-sbang, fri, pred uncons fros-clr qtz grs, tr calc cmt, NSOF, v sl resid ring cut. 30% SH, lt gy-gy, frm-sft, sbblky-blky, slty ip, sl calc. 30% SH, blk-dk gy, frm-hd, blky-sbblky, mass, sl calc.	No noticeable increase in oil accompanying show. Gas increased over a background of 249 units to a peak of 515 units. Mud cut 13.8 in/13.4 out.
32	13054-13064	30% SS, lt gy-wh, m-w srt, vf-f gr, ang-sbang, p-m cmt, abnt uncons fros-clr qtz grs, calc cmt, tr pyr, NSOFC. 60% SH, gy-lt gy, frm-sft, blky-sbblky, slty & aren ip, tr wh xln calc frac fill. 10% SH, blk, frm, blky, slty ip, sl calc.	No noticeable increase in oil accompanying show. Gas increased over a background of 260 units to a peak of 939 units. Mud cut: 13.8 in/12.9 out.

SIGNIFICANT SHOWS - BAR-F 2-5B1

SHOW #	INTERVAL & FORMATION	SAMPLE DESCRIPTION	SHOW SUMMARY & REMARKS
33	13086-13098	30% SS, lt gy-wh, m srt, vf-m gr, sbang-ang, pred uncons wh-clr-fros qtz grs, sme slt mtrx & calc cmt, NSOFC. 50% SH, gy-lt gy, frm-sft, blky-sbblky, slty & aren ip, sl-m calc, tr wh xln calc frac fill. 20% SH, blk-dk gy, frm-hd, blky, slty, sl calc.	**No noticeable increase in oil accompanying show.** Gas increased over a background of 141 units to a peak of 274 units. Mud cut: 13.7 in/13.4 out.
34	13182-13186	90% SH, gy-lt gy, frm-sft, blky-sbblky, slty, occ aren, bent ip, calc. 10% SH, blk-dk gy, frm-hd, blky-sbblky, sl calc, tr f dism pyr.	**No noticeable increase in oil accompanying show.** Gas increased over a background of 105 units to a peak of 172 units. Mud cut: 13.7+ in/13.6 out.
35	13229-13231	50% SH, gy-lt gy, frm, sbblky-sbplty, slty ip, occ aren, sl bent, m-v calc. 40% SH, blk, frm-hd, blky-sbblky, slty ip, sl calc. 10% SS, lt gy-crm, m-w srt, vf-f gr, sbang-sbrd, occ ang, pred v fri-uncons, abnt fros, lt gy qtz grs, tr calc cmt, tr brn oil stn, NFOC.	**Trace of black waxy oil over the shaker during show.** Gas increased over a background of 114 units to a peak of 1976 units. Lost 264 bbl of mud into the show zone. Mud cut: 13.8 in/11.3 out.

DAILY LOG OF OPERATIONS FOR BAR-F 2-5B1

(6:00 AM DEPTHS)

DATE	DAY	DEPTH	FOOTAGE	OPERATIONS
08-17-90		-0-	-0-	Spud with rathole machine @ 9:00 AM. 30" hole to 121'. 20" conductor pipe cmtd with 13 yds of 6 bag/yd ready mix.
08-22-90		-0-	-0-	Rig up Forwest Rig 6.
08-23-90		-0-	-0-	Rig up Forwest Rig 6.
08-24-90		-0-	-0-	Rig up Forwest Rig 6.
08-25-90		-0-	-0-	Rig up Forwest Rig 6.
08-26-90		-0-	-0-	Spud 8-26-90 @ 6:00 AM MST.
08-27-90	1	650	525	Drlg. #1. Drlg with mud.
08-28-90	2	1175	525	Drlg. #1. Switch to water @ 980'.
08-29-90	3	1494	319	TIH with #2. TOH for bit @ 1494'.
08-30-90	4	1892	398	Drlg. #2. Wash & ream 108' to bottom following bit trip.
08-31-90	5	2010	118	Drlg. #3. TOH for bit #3 @ 1929' mud up to 11.8 ppg due to tight hole and 2 bpm water flow. Lost 150 bbl to seepage.
09-01-90	6	2210	200	Drlg. #4. TOH for bit #4 @ 2017'.
09-02-90	7	2408	198	Drlg. #4. Drilled to 2350', TOH, bit balled up.
09-03-90	8	2518	110	Circ. Prep to cmt 13 3/8" casing.
09-04-90	9	2518	-0-	Nipple up stack. Cmt casing with 1510 sx 35/65 poz with tail of 450 sx Class G. Wait on cmt. Nipple down, cut off casing, install wellhead.
09-05-90	10	2518	-0-	Nipple up stack, test BOP's.
09-06-90	11	2795	277	Drlg. #5. Drill out float and shoe, pressure test casing, drilling with water.
09-07-90	12	3259	464	Drlg. #6. Drill to 3235', TOH for bit #6, wash & ream 90' to bottom (12' fill). junk in hole from bit #5.
09-08-90	13	3306	47	TIH with globe basket. Drill to 3306', TOH to pick up junk basket, fish for junk. TOH, recovered 1/3 cup of bearings & broken teeth. TIH with magnet, fish, TOH, no recovery.
09-09-90	14	3570	264	Drlg. #7. Core 14" with globe basket, TOH, pick up junk basket with bit #7, TIH.
09-10-90	15	3891	321	Drlg. #6RR. Drilled to 3747', TOH for bit #6RR. Wash & ream bridges 3050-3747'.
09-11-90	16	4411	520	Drlg. #6RR. Drlg with water, running sweeps to clean hole.
09-12-90	17	4875	464	Drlg. #6RR.
09-13-90	18	5410	535	Circ. to TOH for hole in drill pipe.
09-14-90	19	5727	317	Drlg. #8.
09-15-90	20	6169	442	TOH for hole in drill pipe.
09-16-90	21	6484	315	Drlg. #8. 2 holes in drill pipe. Hole tight 3439-3525'.
09-17-90	22	6842	358	TOH for bit #9.
09-18-90	23	7148	306	Drlg. #9.
09-19-90	24	7548	400	TOH for hole in drill pipe. Mud up @ 7500'.

DAILY LOG OF OPERATIONS FOR BAR-F 2-5B1

(6:00 AM DEPTHS)

DATE	DAY	DEPTH	FOOTAGE	OPERATIONS
09-20-90	25	7655	107	**Drlg.** #9. 2 holes in drill pipe, hole tight @ 7368'.
09-21-90	26	7970	315	**TOH for bit #10.**
09-22-90	27	8005	35	**Drlg.** #10. Wash & ream to bottom, tight @ 3102-4037', 6643-6917', 7790-7970'.
09-23-90	28	8250	245	**Drlg.** #10.
09-24-90	29	8487	237	**Drlg.** #10.
09-25-90	30	8720	233	**Drlg.** #10.
09-26-90	31	8940	220	**Drlg.** #10.
09-27-90	32	9083	143	**Drlg.** #11. Drill to 9024', TOH for bit #11, TIH, tight @ 3114-3581'.
09-28-90	33	9270	187	**Drlg.** #11. Severe torque 9212-9216'.
09-29-90	34	9521	251	**Drlg.** #11.
09-30-90	35	9822	301	**Drlg.** #11.
10-01-90	36	10150	328	**Drlg.** #11
10-02-90	37	10150	-0-	**TOH for logs.** Circ. & condition hole. Drop multishot. Strap out of hole, SLM 10150.99. TIH, circ & condition mud.
10-03-90	38	10150	-0-	**Log with Halliburton** (DLL-Microguard, FWS-LSS, Waveforms, 4-Arm Caliper) Log TD 10138.
10-04-90	39	10150	-0-	**TOH, lay down drill pipe.** Finish logging, TIH, circ & condition hole.
10-05-90	40	10150	-0-	**Wash casing to bottom 9990-10050'.** Hole tight @ 9990'.
10-06-90	41	10150	-0-	**Nipple down BOP's.** Cmt casing in 2 stages. Stage 1: 490 sx 50/50 Poz "G" with tail of 450 sx Class "G", Stage 2: 1425 sx Hilift & 1140 sx 50/50 Poz "G" with tail of 100 sx Class "G".
10-07-90	42	10150	-0-	**Pick up drill pipe and trip in hole.** Nipple up BOP stack and pressure test.
10-08-90	43	10150	-0-	**Drill out DV tool, cmt, float, & shoe.** Pressure test casing.
10-09-90	44	10320	170	**Drlg.** #12. run leak off test.
10-10-90	45	10430	110	**TOH to pick up Angle Building Assembly, MWD, & bit #13.** Drill break 10386-10389', well flowing, 20 bbl gain, SIDPP 1140, SICP 1140, raise mud wt to 12.2 ppg. Circ. out kick through choke.
10-11-90	46	10521	91	**Drlg.** #13.
10-12-90	47	10686	165	**Drlg.** #13.
10-13-90	48	10758	72	**TIH with bit #14.** Lost nose piece from one cone & another cone cracked on bit #13.
10-14-90	49	10796	38	**Drlg.** #15. Junk in hole from bit #13 damaged bit #14. TOH for bit @ 10793.
10-15-90	50	10935	139	**Drlg.** #15.
10-16-90	51	10984	49	**Drlg.** #16. Drill with bit #15 to 10935. TOH for bit.
10-17-90	52	11091	107	**Drlg.** #16.

DAILY LOG OF OPERATIONS FOR BAR-F 2-5B1

(6:00 AM DEPTHS)

DATE	DAY	DEPTH	FOOTAGE	OPERATIONS
10-18-90	53	11106	15	**Reaming.** Drill to 11106. TOH to pick up bullnose and 2-3pt reamers to clean up hole.
10-19-90	54	11106	-0-	**Wash & ream to bottom with bit #17.**
10-20-90	55	11210	104	**Drlg.** #17.
10-21-90	56	11375	165	**Drlg.** #17.
10-22-90	57	11526	151	**TOH for bit #18.**
10-23-90	58	11530	4	**Drlg.** #18. Inspect HWDP, wash & ream tight hole @ 11120-11526.
10-24-90	59	11626	100	**Drlg.** #18.
10-25-90	60	11628	2	**Reaming.** Drill to 11628, TOH to pick up bullnose & 3-3pt reamers to clean out tight hole.
10-26-90	61	11642	14	**Drlg.** #19.
10-27-90	62	11770	128	**Drlg.** #19.
10-28-90	63	11787	16	**Drlg.** #20. Drill to 11776 with bit #19. TOH for bit.
10-29-90	64	11861	74	**Drlg.** #20. Slide with steerable assembly 11787-11850, rotate 11850-11861.
10-30-90	65	12112	251	**Drlg.** #20. Rotate drill string.
10-31-90	66	12205	93	**Pressure testing BOP's.** Drill to 12205, TOH for bit #21.
11-01-90	67	12261	56	**Drlg.** #21. Rotate drill string.
11-02-90	68	12513	256	**Drlg.** #21. Rotate drill string, short trip 7 jts @12419' to reduce torque & hole drag.
11-03-90	69	12726	213	**Drlg.** #21. Rotate drill string, short trip 7 jts @12669' to reduce high torque & hole drag.
11-04-90	70	12851	125	**TOH for bit #22.** Inspect HWDP.
11-05-90	71	12875	24	**Drlg.** #22. Laid down 2 cracked jts of HWDP, wash & ream to bottom.
11-06-90	72	13014	139	**Drlg.** #22. Short trip 4 jts @ 13006 to reduce torque & hole drag.
11-07-90	73	13025	11	**Reaming.** #12RR. TOH with bit #22, lost nose of one cone, TIH to ream out and mill on junk. Wash & ream to 11760.
11-08-90	74	13025	-0-	**Reaming.** Wash & ream 11760-12023, severe tight spot @ 12016. TOH with bit. TIH with bullnose on bottom and 3pt reamer 60' up.
11-09-90	75	13025	-0-	**Fishing.** Wash & ream to 12045, pressured up. TOH, lost bullnose, bit sub, and 28'of 4 1/2" HWDP. TIH with 7 3/8" overshot(fishing run #1). Strap in hole.
11-10-90	76	13025	-0-	**Fishing.** Attempt to work over top of fish @ 12015. TOH, did not recover fish. TIH with bent joint and 7 3/8" overshot(fishing run #2).

DAILY LOG OF OPERATIONS FOR BAR-F 2-5B1

(6:00 AM DEPTHS)

DATE	DAY	DEPTH	FOOTAGE	OPERATIONS
11-11-90	77	13025	-0-	**Fishing.** Attempt to work over fish @ 12015. TOH, did not recover fish. TIH with 8 1/8" overshot & MWD to orient cut lip(fishing run #3). Attempt to work over top of fish. TOH, MWD failed, did not recover fish. TIH with 8 1/8" overshot with cutrite on bottom, sides, and mill control(fishing run #4).
11-12-90	78	12015	-0-	**Fishing.** Attempt to work over fish. TOH, did not recover fish. TIH with 5 3/4" overshot with 6 1/2" lip guide & 2-4 3/4" drill collars(fishing run #5). Attempt to work over fish. TOH.
11-13-90	79	12015	-0-	**Fishing.** TOH, did not recover fish. TIH with 5 3/4" overshot, 1-4 3/4" drill collar and 1^0 bent sub, (fishing run #6). Attempt to work over fish, jar loose, TOH.
11-14-90	80	12015	-0-	**Fishing.** TOH with 6th overshot, did not recover fish. TIH with with 1 $1/2^0$ bent motor, monel, and MWD(fishing run #7). Attempt to wash and work over fish. TOH, did not recover fish. TIH with bit, 1 $1/2^0$ bent motor, and MWD to clean out and cond. hole.
11-15-90	81	12015	-0-	**Fishing.** Wash & ream to top of fish. Pump 9 sweeps to clean hole. TOH. TIH with 7 3/8" overshot, 1 jt drill pipe, 1^0 bent sub(fishing run #8). Wash to top of fish.
11-16-90	82	12015	-0-	**Fishing.** Attempt to work over fish. TOH, lost skirt from overshot, did not recover fish. TIH with 6 1/8" X 2" taper mill. Inspect BHA. Attempt to go over top of fish.
11-17-90	83	12015	-0-	**Fishing.** Ream 12015-12018. TOH. TIH with 7 7/8" bit to wash and ream by fish.
11-18-90	84	12015	-0-	**TIH.** Wash from 11856-12018. Attempt to drill over fish 12018-12033. Hole tight & packing off. Attempt to run multishot survey, could not get back to bottom. TOH. TIH with Bit #24RR and MWD.
11-19-90	85	12015	-0-	**TIH, orient tools.** Wash & ream to 12014. Circ. & cond. tight hole (sloughing dark gray splintery shale). Raise mud weight to 13.8 ppg. TOH. TIH with Bit #23RR, 1 $1/2^0$ bent motor.
11-20-90	86	12015	-0-	**TIH with Bit #25.** Wash from 11985-12006. Orient motor and slide from 12006-12012, motor failed. TOH with Bit #23RR. TIH with Bit #25 and 1^0 bent motor.
11-21-90	87	12015	-0-	**TIH.** Wash from 11900-12015, hole packing off. Sweep hole, work pipe, and cond. mud. TIH.

DAILY LOG OF OPERATIONS FOR BAR-F 2-5B1

(6:00 AM DEPTHS)

DATE	DAY	DEPTH	FOOTAGE	OPERATIONS
11-22-90	88	12037	-0-	**TOH with bit #25.** Wash and ream 11969-12023 sliding and rotating. Drill sliding 12018-12030, rotating 12030-12037. Unable to get back to bottom after connection. TOH.
11-23-90	89	12015	-0-	**Circ. & cond. hole @ 11885.** TOH with Bit #25. TIH with Bit #26, MWD, 3-point reamer to attempt to drill over top of fish. Wash & ream from 11978-12013. Stuck @ 12004, packing off. Jar loose, and pull up to condition hole.
11-24-90	90	12015	-0-	**Wash & ream @ 11514.** Circ. & cond. hole. TOH, inspect BHA, change out jars. TIH with bullnose & 3-point reamer. Wash & ream 10778-11514.
11-25-90	91	12015	-0-	**TIH with Bit #26RR.** Wash & ream 11514-11957. TOH. TIH with Bit #26RR, mud motor, 2^0 bent sub, and MWD.
11-26-90	92	11816	23	**Time drill with motor to sidetrack.** TIH, survey, and orient for kickoff @ 11793. Time drill 11793-11816.
11-27-90	93	11824	8	**Time drill with motor to sidetrack.** TOH. TIH with Bit #27. Orient tool. Time drill attempting to sidetrack hole.
11-28-90	94	11745	5	**Time drlg-attempt to sidetrack.** Time drilled 11824-11829. Wash down hole attempting to sidetrack hole to 11946-no success. Pull up to 11740 to time drill in a sandy zone. Time drill 11740-11745.
11-29-90	95	11747	2	**TOH to change BHA.** Time drill to 11747. Pick up to 11740, time drill to 11747. Wash & ream 11740-11747. Pick up, check to see if a shoulder for a sidetrack had been created, no indication found. TOH.
11-30-90	96	11747	-0-	**Time drlg-attempt to sidetrack.** TOH. Pressure test BOPE. TIH with Bit #28, motor, 2^0 bent sub, and MWD to 10556. Run wireline checkshot survey. TIH to 11744, orient tool, and time drill 11744-11747.
12-01-90	97	11755	-0-	**TOH.** Time drill 11744-11755. Plow trough 11707-11755. TOH.
12-02-90	98	11761	6	**Drlg in sidetrack hole.** TOH with Bit #28. TIH with Bit #26RR, 1 $1/2^0$ bent motor, & MWD. Orient tool, ream & time drill @ entrance to sidetrack hole. Drill with motor in sidetrack hole.
12-03-90	99	11816	55	**TOH after MWD quit working.** Drill in sidetrack hole alternately sliding & rotating. Try to orient tool & survey, MWD quit working. TOH.
12-04-90	100	11816	-0-	**Orient tools to drill in sidetrack hole.** TOH. Inspect BHA. Pick up new MWD & TIH with Bit #29.

DAILY LOG OF OPERATIONS FOR BAR-F 2-5B1

(6:00 AM DEPTHS)

DATE	DAY	DEPTH	FOOTAGE	OPERATIONS
12-05-90	101	11816	-0-	**Time drlg @ 11816-attempting to sidetrack hole.** Orient tools. Re-enter sidetrack hole @ 11755, hole packing off, motor stalling. Rotate to bottom @ 11816 & clean out sidetrack hole. Break out of sidetrack hole @ 11816. Time drill in attempt to re-sidetrack.
12-06-90	102	11816	-0-	**Wash & ream to 11760.** TOH. TIH with bullnose & 3pt reamer to clean wellbore of cuttings bed 10678-11760.
12-07-90	103	11816	-0-	**Circ. & cond. hole for packer whipstock.** TOH. Inspect HWDP. TIH with bullnose & 3-pt reamer. Circ. & cond. hole.
12-08-90	104	11816	-0-	**Circ. & cond. with Whipstock @ 10122.** TOH. Pick up whipstock assembly with CTC packer. TIH. Circ. & check flow rate.
12-09-90	105	11538 PBTD	-0-	**TIH. CBU @ 10941.** TIH, survey, & orient whipstock @ 10496. TIH to 11576, orient whipstock. Rig up Dowell, pump 15 bbl(67 sx) class G cmt. Displace with 167 bbl mud. Inflated packer. TOH. TIH with Bit #30.
12-10-90	106	11538	-0-	**Pick up diamond sidetrack bit.** Wash & ream 10899-10947. TOH, pick up jars, TIH with Bit #30. Wash & ream 10905-11536. TOH. Pick up Bit #31, 1 1/2^0 bent motor,and MWD.
12-11-90	107	11574	-0-	**Attempting to push whipstock downhole.** TIH. Rig up SDI steering tool with side entry sub. Wash 11516-11538. Drill with motor sliding 11538-11547. Make connection, whipstock appeared to slide downhole. Push whipstock to 11573.
12-12-90	108	11594	16	**Drlg in sidetrack hole.** Push whipstock to 11578. TOH. TIH with Bit #25RR. Locate whipstock @ 11578. Drill in sidetrack hole.
12-13-90	109	11630	36	**TIH with Bit #32.** Drill to 11630. TOH. TIH with Bit #32 & MWD.
12-14-90	110	11699	69	**Drlg.** #32. Wash & ream 11529-11628.
12-15-90	111	11743	44	**Drlg.** #33.
12-16-90	112	11880	137	**Drlg.** #33.
12-17-90	113	11935	55	**Drlg.** #33. Coupling on drawworks A motor came loose requiring rig repair. Short trip 5 jts.
12-18-90	114	12027	92	**TIH.** #34. Drill to 12027, lost 300# pump pressure. TOH for hole in drill pipe.
12-19-90	115	12079	52	**Drlg.** #34. TIH, wash & ream 11578-12027.
12-20-90	116	12113	34	**TIH on wiper trip.** Drill to 12113. TOH for hole in drill pipe. Change out part of drill pipe. TIH with bull nose mill & string mill.
12-21-90	117	12113	-0-	**TIH with bit #35.** Ream 11916. TOH, change out BHA.
12-22-90	118	12158	45	**Drlg.** #35. Ream tight hole 11646-12113.
12-23-90	119	12290	132	**Drilling.** #35.
12-24-90	120	12338	48	**TIH, PU new drill pipe.** Drill to 12338, TOH for bit #36.

DAILY LOG OF OPERATIONS FOR BAR-F 2-5B1

(6:00 AM DEPTHS)

DATE	DAY	DEPTH	FOOTAGE	OPERATIONS
12-25-90	121	12363	25	**TOH for hole in pipe.** Wash & ream 12199-12338, drill to 12363, lost 300# pump pressure.
12-26-90	122	12370	7	**TIH with skirted magnet.** TIH with bit #36RR, drill to 12370. Lost 250# pump pressure, bit stalled after connection. Chain out of hole, looking for washout, bit lost 1 cone. PU magnet & test sub, TIH to test drill pipe. Inspect spiral weight pipe.
12-27-90	123	12370	-0-	**TIH with magnet to fish.** TIH, pressure test drill pipe, no leaks. Wash & ream 12268-12370. Fish with magnet. TOH, recovered cone. PU bit #37, 1^0 motor, & MWD, TIH.
12-28-90	124	12515	145	**Drlg.** #37. TIH, wash & ream 12324-12370.
12-29-90	125	12662	147	**Drlg.** #37.
12-30-90	126	12750	88	**TIH, test BOP.** Drill to 12750, hole torquing & packing off. TOH for reaming trip.
12-31-90	127	12750	-0-	**Reaming.** Test BOP. PU bullnose, 3pt reamer, & bent joint. TIH, wash & ream.
01-01-91	128	12750	-0-	**Reaming.** #38. Ream 11600-12750 with bullnose & 3 pt reamer. TOH, PU bit #38, 1^0 motor, & MWD, TIH, ream from 12567.
01-02-91	129	12892	142	**Drlg.** #38.
01-03-91	130	13045	153	**Drlg.** #38. Lost 315 bbl mud @ 12848.
01-04-91	131	13190	144	**Drlg.** #38.
01-05-91	132	13275	84	**TIH with bullnose & 3 pt reamer.** Drill to 13229, lost all returns. Lost 264 bbl mud. Drill to 13275, lost 300# pump pressure, TOH for hole in drill pipe. Pennzoil determined 13275 as TD.

APPENDIX 1

BIT RECORD - BAR-F 2-5B1

BIT NO.	SIZE	MAKE	TYPE	JETS	SERIAL NO.	DEPTH OUT	FEET	HOURS	FT/HR	ACCUM HOURS	WOB 1000#	RPM	PUMP PRESS	SPM 1 - 2	GRADE T B G
1	17 1/2	HTC	X3A	18-18-18	6W262	1500	1375	63.5	21.65	63 1/2	25/35	R 70/80	1500	120-120	6 6 1/8
2	17 1/2	HTC	X3A	20-20-20	PP058	1929	429	25.5	16.82	89	25/35	R 70/80	1200	95-95	6 8 1/4
3	17 1/2	HTC	X3A	20-20-20	5E736	2017	80	13	6.15	102	35/40	R 70/80	1600	100-100	5 7 I
4	17 1/2	STC	DGJ	20-20-20	XF8461	2518	501	46.5	10.77	148 1/2	35/40	R 70/80	1800	108-108	6 6 I
5	12 1/4	HTC	ATJ11	12-12-13	A28HW	3235	717	26.5	27.06	175	40/45	R 60/70	1700	120-	5 F 1/4
6	12 1/4	HTC	ATJ33	13-13-12	J19HJ	3306	71	6.5	10.92	181.5	40/45	R 50/60	1700	120-	1 1 I
7	12 1/4	HTC	ATJ33	18-18-16	L21236	3747	441	17	25.94	198.5	40/50	R 50/60	2000	90-90	2 2 I
6RR	12 1/4	HTC	ATJ33	18-18-18	J19HJ	5410	1663	71.5	23.26	270	40/50	R 50/60	2000	95-95	6 4 1/4
8	12 1/4	HTC	ATJ33	18-18-18	J34HJ	6842	1432	65.5	21.86	335.5	60	R 60	2000	95-95	8 4 1/4
9	12 1/4	STC	F-4	20-20-18	NA4908	7970	1128	62	18.19	397.5	55/60	R 60/65	1900	90-90	8 4 1/4
10	12 1/4	HTC	ATJ55R	18-18-18	P83HL	9024	1054	104.5	10.09	502	55/60	R 60/65	1750	80-80	8 6 1/4
11	12 1/4	HTC	ATJ44	18-18-18	BO2HX	10150	1126	98	11.49	600	55/65	R 60/65	1900	75-75	4 4 I
12	8 1/2	HTC	ATJ44	14-14-B	F19HP	10430	280	31.5	8.89	631.5	45	R 60	2400	-110	3 3 I
13	8 1/2	HTC	ATJ44L	14-14-14	R47HE	10758	328	44	7.45	675.5	45/50	M 90/98	2150	110-	8 8 I
14	8 1/2	STC	F-4L	15-15-14	XH457	10793	35	6	5.83	681.5	45/50	M 90/98	2350	115-	7 2 I
15	8 1/2	STC	F-4L	15-15-14	XH3424	10935	142	25	5.68	706.5	80	M 90	2400	120-	3 3 I
16	8 1/2	HTC	ATJ33L	15-15-14	RE844	11106	171	34	5.03	740.5	45	R/M 40/98	2450	-110	8 6 1/16
17	8 1/2	REED	HP53AL	13-12-12	ET1358	11526	420	58.5	7.18	799	70/80	R 50/56	2600	120-	8 6 1/8
18	8 1/2	STC	F-3L	15-14-14	XE0101	11628	102	25.5	4.00	824.5	80/100	M 100	2500	-105	3 8 1/8
19	8 1/2	HTC	ATJ33L	12-12-12	X68XN	11776	148	26.5	5.58	851	70	R 55	2500	110-	6 2 I
20	8 1/2	REED	HP61A	15-14-14	ET1429	12205	429	58.5	7.33	909.5	68/75	R/M 40/98	2650	-105	2 2 1/8
21	8 1/2	REED	HP61A	15-15-14	ET1487	12851	646	58.5	11.04	968	55/65	R/M 50/100	2550	105-	4 4 1/16
22	8 1/2	REED	HP53A	15-15-15	BI2085	13025	174	27.5	6.33	995.5	50/60	R 45	2500	-100	8 8 1/8
12RR	8 1/2	HTC	ATJ44	13-13-13	F19HP	12016	WASH & REAM								2 2 1/8
23	8 1/2	REED	HP63A	15-15-15	HD3030	12015	WASH & REAM								1 1 I

BIT RECORD - BAR-F 2-5B1

BIT NO.	SIZE	MAKE	TYPE	JETS	SERIAL NO.	DEPTH OUT	FEET	HOURS	FT/HR	ACCUM HOURS	WOB 1000#	RPM	PUMP PRESS	SPM 1 - 2	GRADE T B G
24	7 7/8	REED	HP62A	14-14-14	RO1116	12033	WASH & REAM								1 1 I
23RR	8 1/2	REED	HP63A	15-15-15	HD3030	12015	WASH & REAM								1 2 WORN
25	8 1/2	HTC	J55R	15-15-15	N17HT	12015	WASH & REAM								1 1 I
26	8 1/2	REED	HP61A	14-14-14	DM2197	12015	WASH & REAM								1 1 I
26RR	8 1/2	REED	HP61A	14-14-15	DM2197	11816	20	23.5	0.85	1019	14	M 85	2550	100-	1 1 I
27	8 1/2	HYCA	ST1	TFA=.50	31082	11816	ATTEMPT TO SIDETRACK								
28	8 1/2	HYCA	ST	TFA=.55	32073	11747	ATTEMPT TO SIDETRACK								
26RR	8 1/2	REED	HP61A	14-14-15	DM2197	11816	61	18	3.39	1037	10/45	R/M 40/90	2050	95-	
29	8 1/2	REED	HP61A	14-14-14	DM2198	11816	ATTEMPT TO SIDETRACK								1 1 1/4
30	8 1/2	REED	S31G	15-15-15	NME427	11538	WASH & REAM								6 1 I
31	8 1/2	HYCA	243NDTS	TFA=.45	33105	11578	ATTEMPT TO SIDETRACK ON WHIPSTOCK								CORED & WORN
25RR	8 1/2	REED	HP61A	15-15-15	N17HT	11630	52	19	2.74	1056	50/58	R 40	1550	100-	6 1 1/16
32	8 1/2	REED	HP61A	14-14-14	BO4389	11708	78	20	3.90	1076	59	R 48	2400	106-	3 4 I
33	8 1/2	REED	HP61A	14-14-14	T15099	12027	319	56	5.70	1132	50/52	R/M 48/90	2400	-90	2 2 1/8
34	8 1/2	REED	HP61A	14-14-14	ET1408	12113	80	17	4.70	1149	50/55	48/90	2400	105-	3 4 1/8
35	8 1/2	REED	HP61A	14-14-14	ET1410	12338	225	40.5	5.56	1189.5	50/60	50/90	2150	101-	3 3 1/16
36	8 1/2	HTC	ATJ44	14-14-14	Y07HW	12370	32	6	5.33	1195.5	55	50/90	2300	100-	8 8 1/8
37	8 1/2	REED	HP61A	14-14-14	ET1444	12750	380	51.5	7.38	1247	50/55	50/90	2250	110-	3 3 1/16
38	8 1/2	REED	HP61A	15-15-15	ET1445	13275	525	80.5	6.52	1327.5	40/50	50/90	2200	110-	4 5 1/16

APPENDIX 2

MUD RECORD - BAR-F 2-5B1

DATE	DEPTH	MUD WEIGHT	VIS	WATER LOSS	PV	YP	GEL STRENGTH	% SOLIDS	FILTER CAKE	OIL/ WATER	pH	Cl	Ca	LCM%	ECD	DAILY COST	CUM COST
08-25-90	0	8.3	26	---	--	--	-/-	---	-	-/--	7.0	200	80	--	--	-0-	-0-
08-26-90	220	8.8	32	---	5	11	7/12	3.5	2	0/96.5	9.5	100	80	--	--	508	508
08-27-90	623	9.0+	40	15.5	10	20	8/19	5.0	2	0/95	9.0	100	80	--	--	2,544	3,052
08-28-90	1130	8.4	27	---	--	--	-/-	0.5	-	0/99.5	7.5	100	40	--	--	2,549	5,601
08-29-90	1500	8.4	27	---	--	--	-/-	0.5	-	0/99.5	10.5	100	280	--	--	2,165	7,766
08-30-90	1885	8.3+	26	---	--	--	-/-	0.5	-	0/99.5	11.0	100	200	--	--	6,442	14,208
08-31-90	2003	11.5+	44	25.6	13	27	11/30	11.0	3	0/89	9.5	500	80	--	--	6,904	21,112
09-01-90	2200	11.3+	38	18.8	18	11	5/22	10.0	2	0/90	10.0	900	TR	--	--	11,534	32,646
09-02-90	2400	11.4+	40	20.0	19	12	4/24	13.0	2	0/87	10.0	1300	40	--	--	462	33,108
09-03-90	2518	11.3	39	20.0	14	13	7/29	13.0	2	0/87	9.5	1300	100	--	--	3,253	36,361
09-05-90	2518	8.3	26	---	--	--	-/-	0	-	0/100	9.5	200	120	--	--	4,050	40,411
09-06-90	2947	8.3	26	---	--	--	-/-	0	-	0/100	10.5	200	240	--	--	293	40,704
09-07-90	3295	8.3	26	---	--	--	-/-	0	-	0/100	10.5	200	300	--	--	386	41,090
09-08-90	3306	8.3	26	---	--	--	-/-	0	-	0/100	10.5	200	300	--	--	48	41,132
09-09-90	3670	8.3	26	---	--	--	-/-	0	-	0/100	9.5	300	320	--	--	463	41,595
09-10-90	3960	8.3	26	---	--	--	-/-	0	-	0/100	10.0	300	320	--	--	211	41,806
09-11-90	4460	8.4	26	---	--	--	-/-	0.3	-	0/99.7	10.5	3000	360	--	--	1,919	43,725
09-12-90	4905	8.7	27	---	--	--	-/-	2.3	-	0/97.7	9.5	6000	440	--	--	2,144	45,869
09-13-90	5410	8.4	26	---	--	--	-/-	0.3	-	0/99.7	10.5	4000	600	--	--	1,743	47,612
09-14-90	5810	8.4	26	---	--	--	-/-	0.3	-	0/99.7	10.5	4500	800	--	--	2,128	49,740
09-15-90	6168	8.4	26	---	--	--	-/-	0.3	-	0/99.7	10.5	5000	800	--	--	1,384	51,124
09-16-90	6573	8.4	26	---	--	--	-/-	0.2	-	0/99.8	11.0	6000	800	--	--	2,299	53,423
09-17-90	6849	8.4	26	---	--	--	-/-	0.2	-	0/99.8	10.5	6000	720	--	--	1,616	55,039
09-18-90	7275	8.4	26	---	--	--	-/-	0.2	-	0/99.8	9.5	5000	560	--	--	866	55,905
09-19-90	7548	8.8	34	---	7	4	4/9	3.5	2	0/96.5	10.0	5000	80	--	--	3,861	59,766
09-20-90	7680	8.9	41	24.0	13	8	6/12	4.3	2	0/95.7	10.5	5000	60	--	--	1,945	61,711
09-21-90	7970	9.0	33	22.0	12	7	7/13	3.0	2	0/97	10.0	13000	TR	--	9.09	5,141	66,852
09-22-90	7985	9.0	40	23.0	9	19	9/22	3.0	2	0/97	10.0	12000	TR	--	9.17	2,586	71,497
09-23-90	8250	8.9	40	24.0	9	16	10/24	3.0	2	0/97	10.0	9000	TR	--	9.08	3,875	75,372
09-24-90	8470	9.1	38	26.0	8	16	10/25	3.0	2	0/97	10.0	8000	TR	--	9.26	1,615	76,987
09-25-90	8700	9.3	38	26.0	6	18	11/26	5.0	2	1/94	10.0	8000	TR	--	9.49	1,421	78,408
09-26-90	8925	9.3	36	26.0	7	15	11/26	6.0	2	TR/94	10.0	7500	TR	--	9.47	1,664	80,072
09-27-90	9060	9.3	35	26.0	8	14	11/25	6.0	2	TR/94	9.5	7000	TR	--	9.47	1,158	81,230
09-28-90	9255	9.3	35	26.0	7	15	12/26	6.0	2	TR/94	9.5	6000	TR	--	10.82	2,109	83,339
09-29-90	9500	9.3	38	16.4	11	20	11/29	6.0	2	TR/94	9.4	6100	TR	--	9.49	3,345	86,184
09-30-90	9810	9.3	40	16.0	10	21	15/36	6.0	2	TR/94	9.7	6000	TR	--	9.53	1,325	87,509
10-01-90	10130	9.5	43	14.0	13	26	19/41	8.0	2	2/90	9.8	6800	TR	--	9.77	9,171	96,680
10-02-90	10150	9.8	41	19.0	11	18	13/22	9.0	2	3/88	9.6	5700	TR	--	9.97	5,973	102,653
10-03-90	10150	9.8	40	19.2	7	8	6/16	9.0	2	2/89	9.5	5700	TR	--	--	-0-	102,653
10-04-90	10150	9.8	38	22.0	7	7	4/16	10.0	2	3/87	9.6	5700	40	--	--	5,321	107,974
10-05-90	10150	9.8	100	19.6	34	24	11/26	10.0	2	3/87	9.6	5700	40	--	--	1,101	109,075
10-06-90	10150	9.8	37	19.5	6	6	5/18	10.0	2	2/88	9.5	5700	20	--	--	80	109,155
10-07-90	10150	8.4	27	---	--	--	-/-	--	-	-/-	---	500	80	--	--	146	109,301
10-08-90	10150	9.7+	53	14.0	11	8	5/13	5.5	2	0/94.5	11.8	2300	TR	--	--	7,181	116,482
10-09-90	10293	10.1	42	12.8	10	7	4/8	7.0	2	0/93	11.2	2100	TR	--	10.30	1,967	118,449
10-10-90	10430	12.2+	46	10.2	20	15	7/14	16.0	2	1/83	11.1	1400	40	--	12.55	13,697	132,146
10-11-90	10430	12.3	46	10.0	25	10	7/15	16.5	2	2/81.5	10.6	1400	40	--	-	-	-
10-11-90	10510	12.3	46	10.0	22	13	6/12	16.5	2	2/81.5	10.2	1400	TR	--	12.62	154	132,300

APPENDIX 2 - continued

MUD RECORD - BAR-F 2-5B1

DATE	DEPTH	MUD WEIGHT	VIS	WATER LOSS	PV	YP	GEL STRENGTH	% SOLIDS	FILTER CAKE	OIL/ WATER	pH	Cl	Ca	LCM%	ECD	DAILY COST	CUM COST
10-12-90	10595	12.2	48	10.0	23	14	10/16	16.0	2	2/82	10.3	1400	TR	--	-	-	-
10-12-90	10674	12.5	50	9.4	27	20	11/18	17.3	2	2/80.7	10.2	1300	TR	--	12.99	1,210	133,510
10-13-90	10750	12.5	50	10.0	25	21	10/17	17.0	2	2/81	10.0	1300	TR	--	-	-	-
10-13-90	10758	12.5+	51	9.6	26	21	11/17	17.3	2	2/80.7	9.9	1300	TR	--	13.00	9,699	143,209
10-14-90	10793	12.6	60	9.2	28	22	11/16	17.5	2	2/80.5	9.9	1300	TR	--	-	-	-
10-14-90	10793	12.6	63	9.2	27	23	11/16	17.5	2	2/80.5	9.8	1300	TR	--	13.16	1,703	144,912
10-15-90	10870	12.6	57	8.4	27	18	11/17	18.0	2	2/80	10.1	1300	20	--	-	-	-
10-15-90	10926	12.6	60	8.0	27	21	11/18	17.7	2	2/80	10.0	1200	40	--	13.12	3,179	148,091
10-16-90	10934	12.7	65	8.0	28	24	10/16	18.0	2	2/80	9.8	1200	20	--	-	-	-
10-16-90	10970	12.6	62	8.0	26	16	9/15	17.5	2	2/81	9.7	1100	20	--	13.04	1,190	149,281
10-17-90	11051	12.5+	60	8.0	21	21	10/24	18.0	2	2/80	9.7	1150	40	--	-	-	-
10-17-90	11078	12.6	63	8.0	21	23	11/25	18.0	2	2/80	9.9	1100	20	--	13.13	6,783	156,064
10-18-90	11108	12.6	63	8.0	20	23	10/21	18.0	2	2/80	9.75	1100	40	--	13.12	931	156,995
10-19-90	11108	12.8+	64	7.8	25	25	11/24	19.0	2	2/79	9.85	1100	40	--	-	-	-
10-19-90	11108	12.7	63	7.8	23	23	11/23	18.0	2	4/78	9.9	1100	40	--	13.13	1,568	158,563
10-20-90	11122	12.9	58	7.8	22	22	10/18	18.0	2	3/76	9.5	1100	80	--	-	-	-
10-20-90	11190	12.9	57	8.0	21	25	10/18	18.0	2	2/80	9.8	1050	40	--	13.30	1,661	160,224
10-21-90	11297	13.0	55	8.0	20	23	10/17	19.0	2	2.5/81	9.5	1050	40	--	-	-	-
10-21-90	11365	13.0	57	8.8	23	22	10/18	19.0	2	2/81	9.9	1050	40	--	13.50	4,880	165,104
10-22-90	11467	12.9	60	8.8	23	24	10/20	19.0	2	2/81	9.8	1050	20	--	-	-	-
10-22-90	11524	13.0	57	8.4	22	22	10/18	19.0	2	2/81	9.9	1050	20	--	13.42	1,583	166,687
10-23-90	11526	13.0	66	8.2	20	23	9/18	19.0	2	2/81	9.7	1050	20	--	13.50	1,167	167,854
10-24-90	11587	12.9+	61	9.0	28	25	9/19	19.0	2	2/79	10.1	1050	20	--	-	-	-
10-24-90	11620	12.9+	64	8.4	30	25	10/21	19.5	2	2/78.5	10.0	1000	60	--	13.62	1,299	169,153
10-25-90	11628	13.1	66	8.0	34	23	9/18	19.5	2	2/78.5	10.0	1000	60	--	-	-	-
10-25-90	11628	13.0	72	8.2	36	21	9/17	19.5	2	2/78.5	10.1	1000	80	--	13.57	1,261	170,414
10-26-90	11628	13.0	61	8.0	31	25	10/18	19.0	2	2/79	10.0	1000	80	--	-	-	-
10-26-90	11632	13.0	62	8.4	31	21	9/17	19.0	2	2/79	10.0	1000	60	--	13.51	7,672	178,086
10-27-90	11703	13.0	62	8.4	28	25	10/18	19.0	2	2/79	10.0	1000	60	--	-	-	-
10-27-90	11767	13.0	62	8.0	27	26	10/18	19.0	2	2/79	10.0	1000	60	--	13.57	7,033	185,119
10-28-90	11782	12.9	60	7.6	22	24	11/20	18.5	2	2/79	9.4	1000	60	--	13.48	813	185,932
10-29-90	11823	12.8+	59	7.6	20	23	10/19	18.0	2	2/80	9.6	1000	60	--	-	-	-
10-29-90	11843	12.9	64	7.6	21	26	11/20	18.5	2	2/79.5	9.9	900	40	--	13.50	678	186,610
10-30-90	11964	13.0	64	7.4	23	25	10/19	19.5	2	2/78.5	9.7	900	40	--	-	-	-
10-30-90	12093	12.9+	66	7.2	22	24	10/18	19.5	2	2/78.5	9.3	900	40	--	13.55	2,740	189,350
10-31-90	12205	13.0+	65	7.5	24	25	9/18	19.5	2	2/78.5	9.4	900	40	--	-	-	-
10-31-90	12205	13.1	64	7.2	24	26	9/19	19.5	2	2/78.5	7.3	900	40	--	13.59	5,311	194,661
11-01-90	12205	13.0	64	7.2	25	23	10/19	19.0	2	2/79	9.3	900	40	--	-	-	-
11-01-90	12240	12.9+	65	7.2	28	24	9/18	19.0	2	2/79	9.7	900	40	--	13.52	3,436	198,097
11-02-90	12314	13.0	67	7.6	28	20	10/17	19.0	2	1/80	10.1	900	40	--	-	-	-
11-02-90	12486	13.0+	70	7.6	26	19	9/16	19.0	2	1/80	10.0	900	40	--	13.53	6,910	205,007
11-03-90	12608	13.0	56	8.0	23	29	10/17	19.0	2	1/80	9.5	900	40	--	-	-	-
11-03-90	12704	13.2	72	8.0	24	19	10/18	20.0	2	1/79	9.3	1100	40	--	13.73	9,807	214,814
11-04-90	12812	13.2	57	8.4	22	18	10/18	20.0	2	1/79	9.7	1250	60	--	-	-	-
11-04-90	12851	13.2	64	8.4	21	22	10/20	20.0	2	2/78	9.7	1250	60	--	13.70	8,393	223,207
11-05-90	12863	13.2	65	8.4	22	23	10/20	20.0	2	1/79	9.2	1520	40	--	13.79	3,138	226,345
11-06-90	12940	13.4	60	8.6	22	25	10/20	20.5	2	1/79.5	9.4	1200	60	--	-	-	-
11-06-90	13005	13.5	64	8.6	24	25	10/19	20.5	2	1/79.5	9.4	1250	60	--	14.14	8,979	235,324
11-07-90	13025	13.5	63	8.6	22	26	9/20	20.5	2	1/78.5	9.3	1200	60	--	-	-	-

APPENDIX 2

MUD RECORD - BAR-F 2-5B1

DATE	DEPTH	MUD WEIGHT	VIS	WATER LOSS	PV	YP	GEL STRENGTH	% SOLIDS	FILTER CAKE	OIL/ WATER	pH	Cl	Ca	LCM%	ECD	DAILY COST	CUM COST
11-07-90	13025	13.5	64	8.8	22	26	10/20	20.5	2	1/78.5	9.2	1200	60	--	14.14	6,293	241,617
11-08-90	13025	13.5	58	8.8	20	18	10/20	20.5	2	1/78.5	9.2	1200	60	--	14.10	8,992	250,609
11-09-90	13025	13.5	56	9.4	10	17	8/21	20.0	2	1/79	9.3	1100	80	--	13.80	9,215	259,824
11-10-90	13025	13.6	54	10.2	29	16	10/28	23.0	2	TR/77	10.1	700	40	--	-	-	-
11-10-90	13025	13.6	64	9.6	29	17	10/30	22.0	2	TR/78	9.8	750	60	--	13.95	9,368	269,192
11-11-90	12015	13.6	57	8.8	30	21	12/31	22.0	2	TR/78	10.1	750	80	--	-	-	-
11-11-90	12015	13.6	69	9.0	34	23	12/32	22.0	2	TR/78	9.8	700	40	--	14.05	6,415	275,607
11-12-90	12015	13.6	56	9.2	31	22	10/26	21.0	2	TR/79	9.6	750	80	--	-	-	-
11-12-90	12015	13.6+	65	8.8	28	17	9/25	21.0	2	TR/78	9.4	700	100	--	13.99	5,522	281,129
11-13-90	12015	13.6	60	8.6	30	18	9/26	22.0	2	TR/78	9.5	650	200	--	-	-	-
11-13-90	12015	13.6	59	8.4	31	21	8/17	21.0	2	TR/79	9.3	650	120	--	14.06	358	281,487
11-14-90	12015	13.5	59	8.2	28	21	7/20	22.0	2	TR/78	9.1	700	120	--	-	3,482	284,969
11-15-90	12015	13.7	54	8.8	30	20	8/24	22.0	2	1/77	9.6	500	80	--	-	-	-
11-15-90	12015	13.7	88	8.2	35	18	5/17	22.0	2	0/78	9.6	400	80	--	14.15	6,588	291,557
11-16-90	12015	13.6+	56	7.8	34	15	6/18	22.0	2	0/78	9.56	400	80	--	-	-	-
11-16-90	12015	13.7+	66	7.4	21	22	7/15	22.0	2	TR/78	9.3	500	80	--	14.23	2,168	293,725
11-17-90	12015	13.7+	58	7.2	26	22	8/18	22.0	2	TR/78	9.4	500	80	--	14.21	7,227	300,952
11-18-90	12015	13.6+	58	6.6	27	23	8/18	21.5	2	2/76.5	9.4	500	40	--	14.27	3,067	304,019
11-19-90	12015	13.6+	64	6.8	31	29	10/16	21.5	2	1/77.5	9.5	500	40	--	-	-	-
11-19-90	12015	13.8	70	6.8	32	30	10/17	22.0	2	1/77	9.4	500	40	--	14.48	1,548	305,567
11-20-90	12015	13.8	65	6.0	34	32	10/15	21.6	2	1/77.4	9.4	600	60	--	14.50	11,800	315,819
11-21-90	12015	13.8	61	7.0	30	26	9/16	21.0	2	1/78	9.3	600	40	--	-	-	-
11-21-90	12015	13.8	64	7.2	34	31	10/16	22.0	2	1/77	9.3	600	40	--	14.45	9,184	325,003
11-22-90	12033	13.8	62	7.0	34	26	10/15	22.0	2	1/77	9.7	600	40	--	-	-	-
11-22-90	12043	13.8	64	7.4	33	28	10/16	22.0	2	TR/77	9.6	500	40	--	14.43	10,072	335,075
11-23-90	12043	13.8	72	7.0	28	26	10/20	22.0	2	TR/78	9.6	400	40	--	-	-	-
11-23-90	11978	13.8	68	7.2	26	22	9/18	22.0	2	TR/78	9.8	500	40	--	14.28	7,636	342,711
11-24-90	11978	13.8+	69	7.0	26	26	11/22	23.0	2	TR/77	9.7	500	40	--	-	-	-
11-24-90	11388	13.8	65	7.6	26	24	10/20	22.0	2	TR/77	9.6	500	40	--	14.18	884	343,595
11-25-90	11960	13.8+	72	7.8	28	30	11/22	22.5	2	TR/77.5	9.8	400	40	--	-	-	-
11-25-90	11957	13.8+	65	8.0	28	25	11/21	22.5	2	0.5/77	9.4	400	20	--	14.30	6,536	350,131
11-26-90	11799	13.8	62	7.0	20	22	9/18	22.0	2	TR/78	9.35	450	40	--	-	-	-
11-26-90	11813	13.8	62	6.6	23	23	11/20	22.0	2	TR/78	9.4	450	40	--	14.30	4,670	354,801
11-27-90	11816	13.9	67	6.4	32	32	9/19	22.0	2	TR/78	9.3	500	40	--	-	-	-
11-27-90	11822	13.8	65	6.2	33	33	10/19	22.0	2	TR/78	9.5	500	40	--	14.50	1,134	355,935
11-28-90	11841	13.8	63	6.2	30	30	10/20	22.0	2	TR/78	9.7	500	40	--	-	-	-
11-28-90	11745	13.8+	68	6.0	34	34	11/22	22.0	2	TR/78	9.8	500	40	--	14.50	5,110	361,045
11-29-90	11747	13.8+	65	6.0	33	33	10/21	22.0	2	TR/78	9.8	500	20	--	-	-	-
11-29-90	11747	13.8+	64	6.0	32	33	10/19	22.0	2	TR/78	9.7	500	20	--	14.49	1,589	362,634
11-30-90	11744	13.8+	66	6.2	31	27	10/19	22.0	2	1/77	9.4	500	40	--	14.43	5,230	367,864
12-01-90	11754	13.8	64	7.0	24	24	11/22	22.0	2	TR/78	9.37	500	40	--	-	-	-
12-01-90	11755	13.8	63	7.0	26	22	10/22	22.0	2	TR/78	9.4	500	40	--	14.33	2,646	370,510
12-02-90	11755	13.8	62	7.0	24	22	8/19	22.0	2	TR/78	9.2	500	40	--	-	-	-
12-02-90	11759	13.7+	65	6.8	24	24	10/22	22.0	2	TR/78	9.6	500	40	--	14.34	1,148	371,658
12-03-90	11800	13.8	75	6.2	28	28	12/24	22.0	2	TR/78	9.9	500	60	--	-	-	-
12-03-90	11816	13.8	70	6.4	28	26	11/22	22.0	2	TR/78	9.9	500	40	--	14.42	11,115	382,773
12-04-90	11816	13.8	70	6.2	24	26	11/23	22.0	2	TR/78	9.7	500	40	--	-	-	-
12-04-90	11816	13.8	82	6.4	28	26	11/24	22.0	2	TR/78	9.5	500	40	--	14.31	1,877	384,650
12-05-90	11817	13.8	66	6.6	28	28	11/22	22.0	2	TR/78	9.4	500	40	--	-	-	-

APPENDIX 2 - continued

MUD RECORD - BAR-F 2-5B1

DATE	DEPTH	MUD WEIGHT	VIS	WATER LOSS	PV	YP	GEL STRENGTH	% SOLIDS	FILTER CAKE	OIL/ WATER	pH	Cl	Ca	LCM%	ECD	DAILY COST	CUM COST
12-05-90	11819	13.8	68	6.4	32	32	11/21	22.0	2	TR/78	9.5	500	40	--	14.48	5,145	389,795
12-06-90	10628	13.8+	72	6.8	34	33	12/24	22.0	2	TR/78	9.4	500	40	--	-	-	-
12-06-90	11730	13.8+	64	6.6	30	26	10/21	22.0	2	TR/78	9.5	500	40	--	14.40	8,227	398,022
12-07-90	11760	13.8	64	7.0	31	31	11/22	22.0	2	TR/78	9.5	500	40	--	14.47	4,596	402,618
12-08-90	11760	13.8+	65	7.0	31	31	10/21	22.0	2	TR/78	9.5	500	40	--	-	-	-
12-08-90	11760	13.8+	66	6.8	31	28	10/19	22.0	2	TR/78	9.6	500	40	--	14.47	1,739	404,357
12-09-90	11554	13.8	68	7.2	31	30	11/22	22.0	2	TR/78	9.3	500	40	--	-	-	-
12-09-90	11553	13.8	68	8.2	30	30	10/25	22.0	2	TR/78	10.1	500	60	--	14.44	1,366	405,723
12-10-90	11538	13.7+	82	8.8	28	34	12/27	22.0	2	1/77	10.15	500	40	--	-	-	-
12-10-90	11538	13.8	68	10.8	23	19	12/30	22.0	2	TR/78	11.7	600	20	--	14.29	547	406,270
12-11-90	11538	13.6+	75	11.0	25	17	12/26	21.0	2	2/77	11.4	600	20	--	-	-	-
12-11-90	11575	13.8	72	9.2	26	17	8/20	22.5	2	TR/77.5	11.5	600	60	--	14.22	4,269	410,539
12-12-90	11575	13.8	64	8.2	24	18	9/19	22.0	2	TR/78	11.6	600	60	--	-	-	-
12-12-90	11590	13.8	72	7.8	30	30	12/20	22.0	2	1/77	11.65	600	60	--	14.40	2,663	413,202
12-13-90	11618	13.8	65	7.6	33	21	10/21	22.0	2	TR/78	11.3	600	60	--	-	-	-
12-13-90	11630	13.8	63	7.8	31	20	9/20	22.0	2	1/78	11.2	600	60	--	14.27	2,624	415,825
12-14-90	11653	13.8	67	8.4	28	24	10/22	22.0	2	TR/78	11.4	700	80	--	-	-	-
12-14-90	11688	13.8	73	7.8	28	26	11/26	22.0	2	TR/78	11.3	700	80	--	14.38	8,159	423,984
12-15-90	11688	13.8	75	7.6	32	28	10/24	22.0	2	TR/78	11.6	700	80	--	-	-	-
12-15-90	11738	13.8	72	7.6	32	29	9/22	22.0	2	TR/78	11.3	700	80	--	14.45	2,781	426,765
12-16-90	11820	13.8	75	-	34	30	10/23	22.0	2	TR/78	11.3	700	80	--	-	-	-
12-16-90	11872	13.8	70	-	35	30	10/22	22.0	2	TR/78	11.1	700	80	--	14.48	6,508	433,273
12-17-90	11922	13.8	68	6.4	35	27	10/21	22.0	2	TR/78	11.0	700	80	--	-	-	-
12-17-90	11932	13.8	75	5.8	36	30	11/23	22.0	2	TR/78	10.9	700	80	--	14.49	5,665	438,938
12-18-90	11995	13.8	72	6.2	35	28	10/20	22.0	2	TR/78	10.7	700	60	--	-	-	-
12-18-90	12027	13.8	70	5.8	34	30	10/20	22.0	2	TR/78	10.7	700	60	--	14.48	5,735	444,673
12-19-90	12027	13.8	78	5.0	30	26	10/22	22.0	2	TR/78	10.77	700	60	--	-	-	-
12-19-90	12071	13.8	72	6.2	34	26	10/24	22.0	2	TR/78	10.4	700	60	--	14.41	5,371	450,044
12-20-90	12113	13.8	73	6.0	29	24	10/23	22.0	2	TR/78	10.2	600	120	--			
12-21-90	12113	13.8	78	5.8	32	28	10/20	22.0	2	TR/78	10.2	600	120	--	-	-	-
12-21-90	12113	13.8	78	5.4	34	26	10/21	22.0	2	1/77	10.1	600	120	--	14.41	4,062	459,579
12-22-90	12113	13.8	74	6.2	27	23	10/20	22.0	2	2/76	10.0	700	160	--	-	-	-
12-22-90	12147	13.8	76	6.0	28	29	12/22	22.0	2	1/77	10.3	700	160	--	14.43	928	460,447
12-23-90	12220	13.8	75	6.2	33	29	11/22	22.0	2	TR/78	10.3	700	120	--	-	-	-
12-23-90	12286	13.9	75	6.0	35	29	10/23	22.5	2	TR/77.5	10.2	700	120	--	14.46	3,385	463,862
12-24-90	12338	13.8	78	6.0	38	29	11/23	22.0	2	TR/78	10.1	700	80	--	-	-	-
12-24-90	12338	13.5	70	5.8	31	29	10/19	22.0	2	TR/78	10.1	700	80	--	14.45	5,005	468,867
12-25-90	12338	13.8	80	6.4	33	31	10/22	22.0	2	1/77	10.0	700	80	--	-	-	-
12-25-90	12363	13.8	80	5.6	32	34	11/23	22.0	2	TR/78	10.4	700	80	--	14.53	1,107	469,974
12-26-90	12370	13.8	82	5.6	29	32	11/23	22.0	2	TR/78	10.5	700	60	--	14.49	309	470,283
12-27-90	12370	13.7	80	5.8	26	31	12/26	22.0	2	TR/78	10.65	700	80	--	-	-	-
12-27-90	12370	13.7	76	6.0	24	28	12/24	22.0	2	TR/78	10.7	700	80	--	14.40	-0-	470,283
12-28-90	12406	13.8	75	6.8	30	27	12/26	22.0	2	TR/78	10.8	750	100	--	-	-	-
12-28-90	12498	13.8+	75	7.2	30	28	12/26	22.5	2	TR/78	10.3	750	100	--	14.46	1,075	471,358
12-29-90	12564	13.8	75	7.4	26	32	13/28	22.5	2	TR/77.5	10.4	750	100	--	-	-	-
12-29-90	12645	13.8	76	7.0	27	36	14/28	22.5	2	TR/77.5	10.5	750	120	--	14.59	7,961	479,319
12-30-90	12728	13.8	74	6.8	28	37	16/32	22.5	2	1/76.5	10.7	750	40	--	-	-	-
12-30-90	12750	13.8	68	6.8	26	30	14/30	22.0	2	TR/78	10.7	750	40	--	14.51	2,182	481,501
12-31-90	12750	13.8	80	6.2	26	32	12/28	22.0	2	TR/78	10.4	700	40	--	-	-	-

APPENDIX 2 - continued

MUD RECORD - BAR-F 2-5B1

DATE	DEPTH	MUD WEIGHT	VIS	WATER LOSS	PV	YP	GEL STRENGTH	% SOLIDS	FILTER CAKE	OIL/ WATER	pH	Cl	Ca	LCM%	ECD	DAILY COST	CUM COST
12-31-90	12750	13.8	80	6.0	30	36	11/26	22.0	2	TR/78	10.2	700	80	--	14.57	5,559	487,060
01-01-91	12750	13.8	68	6.4	32	34	11/23	22.0	2	TR/78	10.4	700	40	--	-	-	-
01-01-91	12750	13.8	88	6.8	34	31	12/26	22.0	2	TR/78	10.6	700	40	--	14.50	5,507	492,567
01-02-91	12790	13.8	70	6.6	32	28	11/21	22.0	2	1/77	10.6	700	60	--	-	-	-
01-02-91	12880	13.8	65	6.2	30	26	10/20	21.5	2	TR/78	10.4	700	60	--	14.34	6,116	498,683
01-03-91	12985	13.8	65	6.0	30	25	9/16	21.5	2	TR/78.5	9.2	600	80	--	-	-	-
01-03-91	13030	13.8	61	6.0	28	23	9/15	21.5	2	TR/78.5	9.2	600	80	--	14.39	19,489	518,172
01-04-91	13103	13.8	67	6.6	22	26	9/15	21.5	2	1/77.5	9.4	600	80	--	-	-	-
01-04-91	13172	13.8	75	6.4	25	32	10/17	22.0	2	1/77	9.4	600	80	--	14.50	25,588	543,760
01-05-91	13250	13.8	80	8.4	24	27	8/20	21.0	2	1/78	8.8	700	120	--	-	-	-
01-05-91	13275	13.7+	60	6.6	23	21	8/18	21.0	2	1/78	8.5	700	120	--	14.21	11,974	555,734

APPENDIX 3

"Dc" EXPONENT DATA - BAR-F 2-5B1

DEPTH	"Dc" EXPONENT
8500	1.87
8600	1.85
8700	1.81
8800	1.74
8900	1.85
9000	1.91
9100	1.79
9200	1.88
9300	1.95
9400	1.88
9500	1.84
9600	1.85
9700	1.80
9800	1.85
9900	1.78
10000	1.74
10100	1.76
10200	1.83
10300	1.78
10400	1.55
10500	1.55
10600	1.73
10700	1.73
10800	1.72
10900	1.71
11000	1.57
11100	1.61
11200	1.71
11300	1.61
11400	1.61
11500	1.65
11600	1.46
11700	1.69
11800	1.65
11900	1.90
12000	1.52
12100	1.52
12200	1.47
12300	1.71
12400	1.60
12500	1.73
12600	1.39
12700	1.36
12800	1.67
12900	1.69
13000	1.61

"Dc" EXPONENT DATA - BAR-F 2-5B1
SIDETRACK HOLE

DEPTH	"Dc" EXPONENT
11700	1.68
11800	1.59
11900	1.59
12000	1.67
12100	1.67
12200	1.56
12300	1.58
12400	1.53
12500	1.50
12600	1.53
12700	1.49
12800	1.58
12900	1.53
13000	1.48
13100	1.58
13200	1.59
13275	1.59

SCIENTIFIC DRILLING INT'L.
SURVEY CALCULATION REPORT
ver - 1.27A

Company: PENNZOIL
Location: DUCHESNE COUNTY, UTAH
Field: BLUEBELL
Declination: 13.00
Operator: SCIENTIFIC DRILLING INT.
Time: Mon Oct 01 16:57:56 1990
Filename: POILMULT
Comments: MULTISHOT

Probe #: 2115
Section Plane: 0.00
Well no: BAR F # 2-5B1
Vertical Section Origin:
North: 0.00 East : 0.00

Depth Units -> FEET

Data Source (D.S.) types : (Manually entered data starts with '*')

CS - CHAMP Singleshot	MS - Magnetic SS	TD - Total Depth
CM - CHAMP Multishot	MM - Magnetic MS	TI - Tiein Point
CC - CHAMP Compensated	MW - M.W.D.	
GS - Gyro Singleshot	PR - Projection	
GM - Gyro Multishot	ST - Steering Tool	

Calculation Method - Minimum Curvature

**** RECORD OF SURVEY ****

Measured Depth	Inc (deg)	Azimuth (deg)	TVD	TOTAL Rec Coordinates		Vertical Section	Dogleg Severity	D.S.
0.0	0.00	0.00	0.0	0.0N	0.0E	0.0	0.00	*TI
2657.0	0.46	292.32	2657.0	4.0N	9.8W	4.0	0.02	CM
2749.0	0.20	186.71	2749.0	4.0N	10.2W	4.0	0.59	CM
2842.0	0.03	140.49	2842.0	3.8N	10.2W	3.8	0.19	CM
2934.0	0.55	249.90	2934.0	3.7N	10.6W	3.7	0.62	CM
3027.0	0.25	190.31	3027.0	3.3N	11.0W	3.3	0.52	CM
3119.0	0.46	276.35	3119.0	3.1N	11.4W	3.1	0.55	CM
3212.0	0.17	320.96	3212.0	3.3N	11.9W	3.3	0.39	CM
3304.0	0.44	214.49	3304.0	3.1N	12.2W	3.1	0.56	CM
3397.0	0.45	187.39	3397.0	2.4N	12.4W	2.4	0.22	CM
3489.0	0.28	188.98	3489.0	1.9N	12.5W	1.9	0.19	CM
3582.0	0.15	144.56	3582.0	1.6N	12.5W	1.6	0.22	CM
3674.0	0.37	269.83	3674.0	1.5N	12.7W	1.5	0.51	CM
3767.0	0.25	206.57	3767.0	1.3N	13.1W	1.3	0.37	CM
3859.0	0.57	232.34	3859.0	0.8N	13.5W	0.8	0.39	CM
3951.0	0.14	206.95	3951.0	0.4N	14.0W	0.4	0.48	CM
4044.0	0.39	257.49	4044.0	0.3N	14.3W	0.3	0.35	CM
4136.0	0.29	171.63	4136.0	0.0S	14.6W	-0.0	0.51	CM
4229.0	0.31	257.13	4228.9	0.3S	14.8W	-0.3	0.44	CM
4321.0	0.20	216.96	4320.9	0.5S	15.2W	-0.5	0.22	CM
4414.0	0.62	229.05	4413.9	1.0S	15.6W	-1.0	0.46	CM
4496.0	0.48	188.62	4495.9	1.6S	16.0W	-1.6	0.49	CM
4599.0	0.91	212.36	4598.9	2.7S	16.5W	-2.7	0.49	CM
4691.0	0.47	185.71	4690.9	3.7S	16.9W	-3.7	0.58	CM
4784.0	0.54	157.18	4783.9	4.5S	16.8W	-4.5	0.28	CM
4876.0	0.63	202.84	4875.9	5.4S	16.8W	-5.4	0.50	CM
4969.0	0.45	167.92	4968.9	6.2S	17.0W	-6.2	0.39	CM
5061.0	0.81	191.07	5060.9	7.2S	17.0W	-7.2	0.46	CM
5154.0	0.92	175.34	5153.9	8.6S	17.1W	-8.6	0.28	CM
5246.0	0.65	168.35	5245.9	9.8S	16.9W	-9.8	0.32	CM

SCIENTIFIC DRILLING INT'L.

Company: PENNZOIL

Declination: 13.00

Filename: POILMULT

Section Plane: 0.00

Time: Mon Oct 01 16:57:56 1990

Depth Units -> FEET

Calculation Method - Minimum Curvature

**** RECORD OF SURVEY ****

Measured Depth	Inc (deg)	Azimuth (deg)	TVD	TOTAL Rec Coordinates		Vertical Section	Dogleg Severity	D.S.
5339.0	0.57	199.22	5338.9	10.8S	17.0W	-10.8	0.36	CM
5431.0	0.57	197.79	5430.9	11.6S	17.3W	-11.6	0.02	CM
5524.0	0.39	193.38	5523.9	12.4S	17.5W	-12.4	0.20	CM
5616.0	0.85	153.46	5615.9	13.3S	17.2W	-13.3	0.66	CM
5709.0	0.62	191.47	5708.9	14.4S	17.0W	-14.4	0.57	CM
5801.0	1.02	178.78	5800.9	15.7S	17.1W	-15.7	0.47	CM
5894.0	0.78	156.88	5893.8	17.1S	16.8W	-17.1	0.44	CM
5986.0	0.96	178.40	5985.8	18.5S	16.6W	-18.5	0.40	CM
6079.0	0.35	175.87	6078.8	19.5S	16.5W	-19.5	0.66	CM
6171.0	0.82	171.07	6170.8	20.5S	16.4W	-20.5	0.51	CM
6263.0	0.39	143.65	6262.8	21.4S	16.1W	-21.4	0.56	CM
6356.0	0.84	139.46	6355.8	22.2S	15.5W	-22.2	0.49	CM
6448.0	1.02	165.16	6447.8	23.5S	14.8W	-23.5	0.49	CM
6541.0	0.94	165.67	6540.8	25.0S	14.4W	-25.0	0.08	CM
6633.0	1.01	163.96	6632.8	26.5S	14.0W	-26.5	0.08	CM
6726.0	0.69	140.99	6725.8	27.7S	13.5W	-27.7	0.49	CM
6818.0	0.94	175.68	6817.8	28.9S	13.1W	-28.9	0.59	CM
6911.0	0.96	166.86	6910.7	30.4S	12.8W	-30.4	0.16	CM
7003.0	0.27	190.37	7002.7	31.4S	12.7W	-31.4	0.78	CM
7096.0	0.33	98.31	7095.7	31.6S	12.5W	-31.6	0.47	CM
7188.0	0.38	191.77	7187.7	32.0S	12.3W	-32.0	0.57	CM
7281.0	0.24	132.88	7280.7	32.4S	12.2W	-32.4	0.35	CM
7373.0	0.70	136.33	7372.7	33.0S	11.6W	-33.0	0.50	CM
7466.0	0.33	135.92	7465.7	33.6S	11.1W	-33.6	0.39	CM
7558.0	0.87	147.19	7557.7	34.3S	10.5W	-34.3	0.60	CM
7651.0	0.84	129.09	7650.7	35.4S	9.6W	-35.4	0.29	CM
7743.0	0.43	130.32	7742.7	36.0S	8.8W	-36.0	0.44	CM
7836.0	0.65	140.08	7835.7	36.6S	8.2W	-36.6	0.25	CM
7928.0	0.27	130.43	7927.7	37.2S	7.7W	-37.2	0.42	CM
8021.0	0.50	191.82	8020.7	37.7S	7.6W	-37.7	0.47	CM
8113.0	0.62	195.99	8112.7	38.6S	7.8W	-38.6	0.14	CM
8206.0	0.64	206.37	8205.7	39.5S	8.2W	-39.5	0.12	CM
8298.0	1.13	182.38	8297.7	40.9S	8.5W	-40.9	0.65	CM
8391.0	0.81	188.99	8390.7	42.5S	8.6W	-42.5	0.36	CM
8483.0	0.49	143.96	8482.7	43.4S	8.5W	-43.4	0.63	CM
8575.0	0.14	147.12	8574.7	43.8S	8.2W	-43.8	0.38	CM
8668.0	0.27	264.08	8667.7	44.0S	8.4W	-44.0	0.38	CM
8760.0	0.43	144.78	8759.7	44.3S	8.4W	-44.3	0.66	CM
8853.0	0.39	112.18	8852.7	44.7S	7.9W	-44.7	0.25	CM
8945.0	0.37	114.96	8944.6	44.9S	7.3W	-44.9	0.03	CM

SCIENTIFIC DRILLING INT'L.

Company: PENNZOIL

Declination: 13.00

Filename: POILMULT

Section Plane: 0.00

Time: Mon Oct 01 16:57:56 1990

Depth Units -> FEET

Calculation Method - Minimum Curvature

**** RECORD OF SURVEY ****

Measured Depth	Inc (deg)	Azimuth (deg)	TVD	TOTAL Rec Coordinates		Vertical Section	Dogleg Severity	D.S.
9038.0	0.24	109.34	9037.6	45.1S	6.9W	-45.1	0.15	CM
9130.0	0.04	156.61	9129.6	45.2S	6.7W	-45.2	0.23	CM
9223.0	0.09	234.32	9222.6	45.3S	6.7W	-45.3	0.09	CM
9315.0	0.15	51.95	9314.6	45.2S	6.7W	-45.2	0.25	CM
9408.0	0.42	92.19	9407.6	45.2S	6.3W	-45.2	0.35	CM
9500.0	0.46	150.39	9499.6	45.5S	5.7W	-45.5	0.47	CM
9593.0	0.67	87.97	9592.6	45.8S	5.0W	-45.8	0.66	CM
9685.0	0.47	112.49	9684.6	45.9S	4.1W	-45.9	0.34	CM
9778.0	0.76	99.33	9777.6	46.2S	3.2W	-46.2	0.34	CM
9870.0	0.41	158.15	9869.6	46.6S	2.4W	-46.6	0.71	CM
9962.0	0.45	166.48	9961.6	47.2S	2.2W	-47.2	0.08	CM
10055.0	0.50	138.50	10054.6	47.9S	1.9W	-47.9	0.25	CM
10087.0	0.46	85.83	10086.6	48.0S	1.7W	-48.0	1.34	CM
CLOSURE:	Distance	-	48.03					
	Direction	-	181.98					

SCIENTIFIC DRILLING INTERNATIONAL

CASPER, WYOMING

PENNZOIL

Well Name	: BAR-F Z-5B1
Location	: DUCHESNE COUNTY, UTAH
	: SEC. 5, T2S, R1W
	: 660'FSL,1543'FEL
Date Surveyed	: 11-26-90
Job No.	: 41D1090124
Survey Performed By	: K. WALKER--S. COCHRAN

This survey is correct to the best of my knowledge
and is supported by actual field data.

Steve Cochran COMPANY REPRESENTATIVE

SCIENTIFIC DRILLING INTERNATIONAL

Client : PENNZOIL
Well Name : BAR-F 2-5B1
Location : DUCHESNE COUNTY, UTAH
: SEC. 5, T2S, R1W
: 660'FSL,1543'FEL
No Interpolation

Date 11-26-90
Filename : BAR_F

Plane of Vertical Section : N 9.90°E
Latitude & Departure relate to : PLATFORM CENTER
Vertical Section Originates at : PLATFORM CENTER
Slot Coordinates : Lat 0.000ft
: Dep 0.000ft
Directions Referenced To : PLATFORM NORTH
Depth at Drill Floor : 0.00 ft

Calculation Method : MINIMUM CURVATURE

Magnetic Declination :+13°24.000'E
Platform north : +0° 0' 0'' (T)
Grid convergence : +0.0000°

SURVEY AT 13025' IS A PROJECTION AT TOTAL DEPTH. ALL OTHER SURVEYS WERE TAKEN FROM MULTI-SHOT OR MWD DATA

SCIENTIFIC DRILLING INTERNATIONAL

Client : PENNZOIL
Well Name : BAR-F 2-5B1
Location : DUCHESNE COUNTY, UTAH
: SEC. 5, T2S, R1W
: 660'FSL,1543'FEL
No Interpolation

Date 11-26-90
Filename : BAR_F

M. DEPTH ft	INC deg	DIRECT'N deg	C\L ft	T V D ft	V/S ft	N/S- ft	E/W- ft	DLS °/100
10087.00	0.46	N85.83°E	0	10086.65	-47.58	-48.02	-1.60	0.00
10400.00	0.50	S37.00°E	313	10399.64	-48.21	-49.02	0.48	0.15
10442.00	1.30	N36.60°E	42	10441.64	-47.91	-48.78	0.87	3.62
10474.00	5.60	N12.70°E	32	10473.57	-46.02	-46.97	1.43	13.88
10506.00	9.10	N10.10°E	32	10505.30	-41.93	-42.95	2.22	10.98
10537.00	14.20	N 6.00°E	31	10535.66	-35.68	-36.75	3.04	16.66
10569.00	18.50	N 4.60°E	32	10566.36	-26.71	-27.78	3.86	13.49
10600.00	22.20	N 5.30°E	31	10595.42	-15.97	-17.05	4.80	11.96
10631.00	25.60	N 7.40°E	31	10623.75	-3.44	-4.57	6.20	11.30
10662.00	29.40	N 7.80°E	31	10651.25	10.86	9.62	8.10	12.27
10692.00	33.10	N 8.10°E	30	10676.89	26.42	25.03	10.25	12.34
10720.00	36.40	N 8.80°E	28	10699.89	42.37	40.81	12.60	11.87
10751.00	39.60	N 9.50°E	31	10724.32	61.45	59.65	15.64	10.42
10782.00	43.10	N 9.90°E	31	10747.58	81.93	79.83	19.09	11.32
10813.00	47.70	N10.60°E	31	10769.34	103.99	101.55	23.02	14.93
10844.00	53.50	N10.60°E	31	10789.01	127.94	125.08	27.43	18.71
10876.00	58.40	N 9.90°E	32	10806.92	154.44	151.17	32.14	15.42
10907.00	64.20	N10.20°E	31	10821.81	181.62	177.93	36.89	18.73
10938.00	66.20	N10.20°E	31	10834.81	209.76	205.62	41.87	6.45
10969.00	66.00	N10.20°E	31	10847.37	238.10	233.52	46.89	0.64
11001.00	66.40	N10.20°E	32	10860.28	267.38	262.33	52.07	1.25
11033.00	67.50	N10.20°E	32	10872.81	296.82	291.31	57.29	3.44
11062.00	68.60	N10.20°E	29	10883.65	323.72	317.78	62.05	3.79
11095.00	69.00	N 9.90°E	33	10895.58	354.49	348.08	67.42	1.48
11126.00	69.20	N10.20°E	31	10906.64	383.45	376.59	72.47	1.11
11158.00	69.10	N 9.90°E	32	10918.03	413.35	406.04	77.69	0.93
11190.00	69.10	N10.20°E	32	10929.45	443.25	435.48	82.91	0.88
11220.00	69.20	N 9.90°E	30	10940.13	471.28	463.08	87.80	0.99
11251.00	68.70	N10.20°E	31	10951.26	500.21	491.57	92.85	1.85
11282.00	68.80	N10.20°E	31	10962.50	529.10	520.00	97.97	0.33
11313.00	68.70	N10.20°E	31	10973.73	558.00	548.44	103.08	0.33
11343.00	68.80	N10.20°E	30	10984.60	585.96	575.96	108.03	0.34
11373.00	69.00	N10.60°E	30	10995.40	613.94	603.49	113.09	1.41
11405.00	69.30	N10.90°E	32	11006.79	643.84	632.87	118.66	1.28
11436.00	69.30	N10.90°E	31	11017.75	672.84	661.34	124.15	0.00
11468.00	68.90	N10.20°E	32	11029.17	702.73	690.73	129.62	2.40
11499.00	68.30	N10.60°E	31	11040.48	731.59	719.12	134.83	2.28
11527.00	68.30	N10.90°E	28	11050.83	757.60	744.68	139.68	1.00
11560.00	69.40	N10.20°E	33	11062.74	788.38	774.93	145.32	3.88
11621.00	71.30	N 9.90°E	61	11083.25	845.82	831.50	155.34	3.15

SCIENTIFIC DRILLING INTERNATIONAL

Client : PENNZOIL
Well Name : BAR-F 2-5B1
Location : DUCHESNE COUNTY, UTAH
: SEC. 5, T2S, R1W
: 660'FSL,1543'FEL

Date 11-26-90
Filename : BAR_F

No Interpolation

M. DEPTH ft	INC deg	DIRECT'N deg	C\L ft	T V D ft	V/S ft	N/S- ft	E/W- ft	DLS °/100
11650.00	70.80	N10.20°E	29	11092.67	873.25	858.51	160.13	1.98
11682.00	70.40	N 9.50°E	32	11103.30	903.43	888.24	165.29	2.41
11714.00	69.40	N 9.90°E	32	11114.29	933.49	917.86	170.35	3.34
11745.00	69.00	N 9.50°E	31	11125.30	962.46	946.43	175.24	1.77
11776.00	69.10	N 9.50°E	31	11136.39	991.41	974.98	180.02	0.33
11808.00	70.40	N 9.20°E	32	11147.46	1021.43	1004.60	184.89	4.16
11840.00	71.90	N 9.20°E	32	11157.80	1051.72	1034.50	189.73	4.69
11871.00	71.80	N 9.20°E	31	11167.46	1081.17	1063.58	194.44	0.33
11903.00	71.70	N 9.20°E	32	11177.48	1111.56	1093.58	199.30	0.32
11935.00	71.80	N 9.90°E	32	11187.50	1141.95	1123.55	204.34	2.10
11967.00	71.80	N10.20°E	32	11197.49	1172.35	1153.48	209.65	0.89
11999.00	72.00	N11.30°E	32	11207.44	1202.76	1183.36	215.32	3.33
12031.00	71.90	N11.30°E	32	11217.35	1233.18	1213.20	221.28	0.32
12063.00	71.70	N11.60°E	32	11227.35	1263.56	1242.99	227.32	1.09
12094.00	71.80	N12.00°E	31	11237.05	1292.99	1271.81	233.34	1.27
12125.00	71.70	N11.60°E	31	11246.76	1322.41	1300.63	239.36	1.27
12156.00	72.00	N11.60°E	31	11256.42	1351.86	1329.48	245.28	0.97
12188.00	72.40	N12.00°E	32	11266.20	1382.31	1359.31	251.51	1.73
12219.00	72.40	N12.00°E	31	11275.57	1411.84	1388.21	257.66	0.00
12251.00	72.10	N11.60°E	32	11285.33	1442.30	1418.04	263.89	1.52
12283.00	72.00	N12.00°E	32	11295.19	1472.72	1447.84	270.12	1.23
12314.00	72.00	N12.30°E	31	11304.77	1502.18	1476.66	276.32	0.92
12346.00	72.20	N12.00°E	32	11314.61	1532.61	1506.43	282.73	1.09
12377.00	72.30	N12.30°E	31	11324.06	1562.11	1535.30	288.94	0.98
12407.00	72.60	N12.30°E	30	11333.10	1590.69	1563.24	295.04	1.00
12439.00	72.80	N12.30°E	32	11342.62	1621.22	1593.09	301.55	0.62
12471.00	72.40	N12.30°E	32	11352.19	1651.72	1622.93	308.05	1.25
12501.00	72.80	N12.70°E	30	11361.16	1680.32	1650.88	314.25	1.84
12532.00	72.50	N12.30°E	31	11370.40	1709.88	1679.77	320.65	1.57
12563.00	73.00	N12.70°E	31	11379.60	1739.46	1708.67	327.06	2.03
12595.00	73.30	N13.00°E	32	11388.87	1770.04	1738.53	333.87	1.30
12627.00	73.30	N13.00°E	32	11398.07	1800.65	1768.39	340.77	0.00
12658.00	73.80	N13.00°E	31	11406.85	1830.33	1797.36	347.45	1.61
12689.00	73.80	N12.70°E	31	11415.49	1860.06	1826.39	354.07	0.93
12720.00	73.90	N13.40°E	31	11424.12	1889.80	1855.39	360.80	2.19
12751.00	73.80	N13.40°E	31	11432.74	1919.52	1884.36	367.70	0.33
12782.00	74.10	N13.40°E	31	11441.31	1949.25	1913.34	374.60	0.97
12809.00	73.90	N13.00°E	27	11448.75	1975.16	1938.61	380.53	1.61
12843.00	74.00	N13.00°E	34	11458.15	2007.79	1970.44	387.88	0.30
12874.00	73.80	N13.40°E	31	11466.75	2037.53	1999.44	394.68	1.40

SCIENTIFIC DRILLING INTERNATIONAL

Client : PENNZOIL
Well Name : BAR-F 2-5B1
Location : DUCHESNE COUNTY, UTAH
: SEC. 5, T2S, R1W
: 660'FSL,1543'FEL

Date 11-26-90
Filename : BAR_F

No Interpolation

M. DEPTH ft	INC deg	DIRECT'N deg	C\L ft	T V D ft	V/S ft	N/S- ft	E/W- ft	DLS °/100
12906.00	73.60	N13.40°E	32	11475.73	2068.18	2029.32	401.80	0.62
12937.00	73.40	N13.80°E	31	11484.54	2097.84	2058.21	408.79	1.40
12968.00	73.50	N13.80°E	31	11493.37	2127.49	2087.07	415.88	0.33
13025.00	73.50	N13.80°E	57	11509.55	2182.02	2140.14	428.91	0.00

Origin of Bottom Hole Closure PLATFORM CENTRE
Bottom Hole Closure 2183 ft N11.33°E

SURVEY AT 13025' IS A PROJECTION AT TOTAL DEPTH. ALL OTHER SURVEYS WERE TAKEN FROM MULTI-SHOT OR MWD DATA

SCIENTIFIC DRILLING INTERNATIONAL

Client : PENNZOIL
Lease : BAR-F 2-B51
Location : DUCHESNE COUNTY, UTAH
: SEC. 5, T2S, R1W
: 660'FSL,1543'FEL
No Interpolation

Date 1-5-91
Filename : BAR_F

M. DEPTH ft	INC deg	DIRECT'N deg	C\L ft	T V D ft	V/S ft	N/S- ft	E/W- ft	DLS °/100
10087.00	0.46	N85.93°E	0	10086.65	-47.59	-48.02	-1.60	0.00
10400.00	0.50	S37.00°E	313	10399.64	-48.21	-49.02	0.48	0.15
10442.00	1.30	N36.60°E	42	10441.64	-47.91	-48.78	0.87	3.62
10474.00	5.60	N12.70°E	32	10473.57	-46.02	-46.97	1.43	13.88
10506.00	9.10	N10.10°E	32	10505.30	-41.93	-42.95	2.22	10.98
10537.00	14.20	N 6.00°E	31	10535.66	-35.69	-36.75	3.04	16.66
10569.00	18.50	N 4.60°E	32	10566.36	-26.71	-27.78	3.86	13.49
10600.00	22.20	N 5.30°E	31	10595.42	-15.97	-17.05	4.80	11.96
10631.00	25.60	N 7.40°E	31	10623.75	-3.44	-4.57	6.20	11.30
10662.00	29.40	N 7.80°E	31	10651.25	10.86	9.62	8.10	12.27
10692.00	33.10	N 8.10°E	30	10676.89	26.42	25.03	10.25	12.34
10720.00	36.40	N 8.80°E	28	10699.89	42.37	40.81	12.60	11.87
10751.00	39.60	N 9.50°E	31	10724.32	61.45	59.65	15.64	10.42
10782.00	43.10	N 9.90°E	31	10747.58	81.93	79.83	19.09	11.32
10813.00	47.70	N10.60°E	31	10769.34	103.99	101.55	23.02	14.93
10844.00	53.50	N10.60°E	31	10789.01	127.94	125.09	27.43	18.71
10876.00	58.40	N 9.90°E	32	10806.92	154.44	151.17	32.14	15.42
10907.00	64.20	N10.20°E	31	10821.81	181.62	177.93	36.89	18.73
10938.00	66.20	N10.20°E	31	10834.91	209.76	205.62	41.97	6.45
10969.00	66.00	N10.20°E	31	10847.37	238.10	233.52	46.89	0.64
11001.00	66.40	N10.20°E	32	10860.28	267.38	262.33	52.07	1.25
11033.00	67.50	N10.20°E	32	10872.81	296.82	291.31	57.28	3.44
11062.00	68.60	N10.20°E	29	10883.65	323.72	317.78	62.05	3.79
11095.00	69.00	N 9.90°E	33	10895.58	354.48	348.08	67.42	1.48
11126.00	69.20	N10.20°E	31	10906.64	383.45	376.58	72.47	1.11
11158.00	69.10	N 9.90°E	32	10918.03	413.35	406.04	77.68	0.93
11190.00	69.10	N10.20°E	32	10929.45	443.25	435.48	82.91	0.88
11220.00	69.20	N 9.90°E	30	10940.13	471.28	463.08	87.80	0.99
11251.00	68.70	N10.20°E	31	10951.26	500.21	491.57	92.85	1.85
11282.00	68.80	N10.20°E	31	10962.50	528.10	520.00	97.97	0.33
11313.00	68.70	N10.20°E	31	10973.73	558.00	548.44	103.08	0.33
11343.00	68.80	N10.20°E	30	10984.60	585.86	575.86	108.03	0.34
11373.00	69.00	N10.60°E	30	10995.40	613.94	603.48	113.09	1.41
11405.00	69.30	N10.80°E	32	11006.78	643.84	632.87	118.66	1.28
11436.00	69.30	N10.80°E	31	11017.75	672.84	661.34	124.15	0.00
11468.00	68.80	N10.20°E	32	11029.17	702.73	690.73	129.62	2.40
11499.00	68.30	N10.60°E	31	11040.48	731.58	719.12	134.83	2.28
11527.00	68.30	N10.80°E	28	11050.83	757.60	744.68	139.68	1.00
11560.00	69.40	N10.20°E	33	11062.74	788.38	774.93	145.32	3.88
11640.00	74.10	N 9.90°E	80	11087.78	864.33	849.72	158.57	5.88

SCIENTIFIC DRILLING INTERNATIONAL

Client : PENNZOIL
Lease : BAR-F 2-B51
Location : DUCHESNE COUNTY, UTAH
: SEC. 5, T2S, R1W
: 660'FSL,1543'FEL
No Interpolation

Date 1-5-91
Filename : BAR_F

M. DEPTH ft	INC deg	DIRECT'N deg	C\L ft	T V D ft	V/S ft	N/S- ft	E/W- ft	DLS °/100
11686.00	73.10	N 9.90°E	46	11100.77	908.46	893.19	166.16	2.17
11719.00	72.20	N 9.90°E	33	11110.61	939.96	924.22	171.57	2.73
11751.00	72.20	N10.20°E	32	11120.39	970.43	954.22	176.89	0.89
11784.00	72.20	N10.20°E	33	11130.48	1001.85	985.15	182.45	0.00
11815.00	72.00	N10.20°E	31	11140.01	1031.35	1014.19	187.68	0.64
11846.00	72.30	N10.20°E	31	11149.51	1060.85	1043.22	192.90	0.97
11878.00	72.20	N10.60°E	32	11159.27	1091.33	1073.20	198.40	1.23
11910.00	71.90	N10.60°E	32	11169.13	1121.77	1103.12	204.00	0.94
11942.00	71.40	N11.30°E	32	11179.20	1152.14	1132.94	209.77	2.60
11974.00	71.20	N11.30°E	32	11189.46	1182.44	1162.66	215.71	0.62
12006.00	70.80	N11.10°E	32	11199.88	1212.69	1192.34	221.59	1.38
12036.00	70.90	N10.90°E	30	11209.72	1241.02	1220.16	227.00	0.71
12068.00	70.70	N11.60°E	32	11220.25	1271.23	1249.80	232.89	2.16
12090.00	70.40	N12.00°E	22	11227.57	1291.97	1270.11	237.13	2.19
12121.00	70.10	N11.60°E	31	11238.05	1321.13	1298.67	243.10	1.55
12151.00	70.00	N12.00°E	30	11248.28	1349.31	1326.27	248.87	1.30
12184.00	69.70	N11.60°E	33	11259.65	1380.27	1356.60	255.20	1.46
12215.00	69.70	N12.00°E	31	11270.41	1409.33	1385.06	261.15	1.21
12247.00	69.40	N11.60°E	32	11281.59	1439.30	1414.41	267.28	1.50
12279.00	69.10	N11.60°E	32	11292.92	1468.21	1443.72	273.30	0.94
12321.00	68.80	N12.00°E	42	11308.01	1508.39	1482.09	281.31	1.14
12353.00	68.70	N13.00°E	32	11319.61	1538.18	1511.21	287.77	2.93
12384.00	68.90	N10.20°E	31	11330.82	1567.06	1539.51	293.58	8.45
12415.00	68.70	N13.00°E	31	11342.03	1595.95	1567.82	299.39	8.45
12446.00	68.90	N10.20°E	31	11353.24	1624.84	1596.13	305.20	8.45
12477.00	68.70	N 9.50°E	31	11364.46	1653.74	1624.61	310.14	2.20
12538.00	68.90	N10.90°E	61	11386.51	1710.61	1680.58	320.21	2.16
12599.00	69.00	N11.60°E	61	11408.42	1767.52	1736.41	331.32	1.09
12628.00	68.90	N12.70°E	30	11419.20	1795.50	1763.78	337.21	3.44
12660.00	68.80	N13.40°E	31	11430.38	1824.36	1791.95	343.74	2.13
12728.00	68.80	N13.80°E	68	11454.98	1887.63	1853.57	358.65	0.55
12759.00	68.80	N13.80°E	31	11466.19	1916.46	1881.64	365.54	0.00
12790.00	68.10	N14.10°E	31	11477.57	1945.23	1909.62	372.49	2.43
12821.00	68.10	N14.10°E	31	11489.14	1973.91	1937.52	379.50	0.00
12851.00	67.70	N14.10°E	30	11500.42	2001.63	1964.47	386.27	1.33
12883.00	67.10	N14.10°E	32	11512.72	2031.08	1993.13	393.47	1.88
12914.00	66.90	N14.10°E	31	11524.83	2059.55	2020.80	400.42	0.64
12945.00	66.60	N14.10°E	31	11537.07	2087.96	2048.43	407.36	0.97
12976.00	66.50	N13.80°E	31	11549.41	2116.33	2076.03	414.22	0.94
13007.00	66.40	N14.10°E	31	11561.79	2144.68	2103.61	421.07	0.94

SCIENTIFIC DRILLING INTERNATIONAL

Client : PENNZOIL
Lease : BAR-F 2-B51
Location : DUCHESNE COUNTY, UTAH
: SEC. 5, T2S, R1W
: 660'FSL,1543'FEL

Date 1-5-91
Filename : BAR_F

No Interpolation

M. DEPTH ft	INC deg	DIRECT'N deg	C\L ft	T V D ft	V/S ft	N/S- ft	E/W- ft	DLS °/100
13038.00	66.10	N14.10°E	31	11574.28	2172.97	2131.13	427.98	0.97
13069.00	65.90	N14.80°E	31	11586.88	2201.20	2158.55	435.05	2.16
13100.00	65.60	N14.90°E	31	11599.62	2229.37	2185.88	442.27	0.97
13132.00	65.50	N15.20°E	32	11612.87	2258.38	2214.01	449.81	1.18
13164.00	65.00	N14.50°E	32	11626.26	2287.33	2242.10	457.25	2.53
13196.00	64.90	N15.50°E	32	11639.81	2316.21	2270.11	464.76	2.85
13275.00	64.60	N17.50°E	79	11673.51	2387.18	2339.61	485.05	2.32

Origin of Bottom Hole Closure PLATFORM CENTRE
Bottom Hole Closure 2388 ft N11.72°E

SURVEY AT 13275' IS A PROJECTION

FORM 25 - 769 (1)

NOTIFICATION AND INFORMATION REQUIREMENTS

Pennzoil Company
Bar-F #2-5B1
Sec. 5-T2S-R1W
Duchesne Co., Utah

LETTERS
Pennzoil Company
P.O. Box 2967
Houston, TX
77252-2967

LARGE PACKAGES
Pennzoil Company
700 Milam
Houston, TX
77002

	AFE & Well Prognosis	State Permits, Reports, Survey, etc.	Daily Drilling Reports - Phone	Daily Drilling Reports - Mail	Electric Logs - Field Prints	Electric Logs - Final Prints	Electric Logs - Film Prints	Electric Logs - Tape LIS Format	Log Telecopies as needed	Notice prior to & results of DTS's, Cores, Logging, Plugging, etc.	Reports - DST, Geological, Completion, Fluid Analysis, etc.	Daily Mud Log & Final Mud Log	Cutting of samples
Pennzoil Company P.O. Box 2967 - 10th Floor Houston, TX 77252-2967 Attn: Ron Schneider Office: (713) 546-4542	1	2	1	1	2	2	1	1	1	1	2	1&2	1
Pennzoil Company P.O. Box 290 Neola, UT 84053 Attn: Danny Laman	2	1	0	0	1	0	0	0	0	1	1	0&1	0
Utah Oil, Gas & Mining 355 West North Temple Suite 350 Salt Lake City, UT 84180	0	1	0	0	0	1	0	0	0	0	1	0&1	0
John D. Chasel 2285 Lucky John Dr Park City, Utah 84060	1	1	0	1	2	2	1	0	0	0	2	1&2	0
Flying J, Inc. 333 West Center N. Salt Lake, Utah 84054 Attn: Carl Kendell	1	1	0	1 each week	2	2	0	0	1	1	2	1&2	0
Henderson Resources C/O Vantage Point Energy 5801 E. 41st St., Suite 1001 Tulsa, OK 74135 Attn: Dave Adams	1	1	0	1 each week	2	2	0	0	0	1	2	1&2	0
Total	6	7	1	4	9	9	2	1	2	4	10	4&10	1

PENNZOIL EXPLORATION AND PRODUCTION COMPANY
P. O. BOX 290 • NEOLA, UTAH 84053 • (801) 353-4397

February 6, 1991

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

FEB 07 1991
DIVISION OF
OIL, GAS & MINING

Re: Monthly Drilling Reports
Bar-F 2-5B1
SWSE Sec. 5 T2S R1W
Duchesne County, Utah
API No. 43-013-31286

Gentlemen:

Enclosed, please find the original and three (3) copies of your Form 5 "Sundry Notices & Reports On Wells" for the captioned well. Pennzoil Exploration and Production Company requests these Form 5 and all related information submitted on this well be held CONFIDENTIAL for that period of time permitted by regulations and law.

Please contact the undersigned if there should be any question. (801) 353-4397

Sincerely
Pennzoil Exploration and Production Company

Danny L. Laman

Danny L. Laman

Enclosure

Form OGC-1b

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

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

2. NAME OF OPERATOR: PENNZOIL EXPLORATION & 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: 660' FSL & 1543' FEL

5. LEASE DESIGNATION AND SERIAL NO.: Fee Land

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: BAR-F

9. WELL NO.: 2-5B1

10. FIELD AND POOL, OR WILDCAT: BLUEBELL

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 5 T2S R1W

12. COUNTY OR PARISH: DUCHESNE

13. STATE: UTAH

14. PERMIT NO.: 43-013-31286

15. ELEVATIONS (Show whether DF, RT, GR, etc.): KB - 5414'

RECEIVED FEB 07 1991 DIVISION OF OIL, GAS & MINING

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
(Other) Monthly Operation Report			[XXX]

(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.)*

- Monthly Operation Reports from Dec. 1, 1990 to Jan. 17, 1990
- Continue sidetracking hole from 11,744' to 11,816'; Sidetrack hole broke into original hole at 11,816'; Attempt to residetrack hole; unsuccessful.
- Set open hole packer whipstock at 11,538'.
- Packer on whipstock did not hold; Push packer whipstock to 11,578'
- Drill a 8 1/2" hole from 11,578' to T.D. at 13,275 M.D.; For a 74.1 deg. to 64.6 deg. and N9.9E dir. to N17.5E dir. at T.D. (SEE ATTACHED SURVEY PLOT FOR DETAILED SURVEY)
- Test BOPs to 5000 psi. (O.K.) on Dec. 30, 1990.
- Reached T.D. at 13,275 M.D. on Jan. 4, 1991, Did not log well. Final mud properties: 13.8 ppg. 65 vis. 6.2 wl.
- Run 88 jts. 5 1/2" 23# P-110 Butt. Csg. with Polish Bore Receptacle, TIW Hydraulic Liner Hanger, and 7' Tieback Sleeve. (Total Length of 3534.13'), Set at 13,270', TOL at 9,735'.
- Cement Liner with 1200 sks. Class "G", Did not bump plug. Job complete at 8:30 PM on Jan. 7, 1991.
- Clean out to TOL at 9,735', Perform flow back test with 8.3 ppg. water, flowed back 5.5 bbls in 6 hrs., Pump into TOL at 1/4 BPM 1400 psi. Prepare to recement liner top.
- Clean out 5 1/2" liner to 11,231'
- Run Cement Bond Log, top of cement at 10,594'.
- Set CIBP on drill pipe at 12,347'.
- Perforate 5 1/2" liner 4 shots per foot at 10,480'.
- Run and set Cement Retainer at 9,844', Establish circulation thur perfs at 10,480' at 3.5 BPM at 1200 psi.
- Cement with 270 sks. Class "G".
- Clean out to TOL 9,735'and perform flow back test with 8.3 ppg. water. Flowed back 1/4 bbl in 4 hrs. (O.K.), Pressure test liner to 2000 psi. with 13.0 ppg. mud for 30 min. No bleed off (O.K.).
- Lay down D.P., clean pits, nipple down BOPs, nipple up tubing spool and BOPs, tested 5000 psi (O.K.)
- Release Forwest Rig 6 at 9:00 PM on Jan. 17, 1991.

- FINAL DRILLING REPORT
- ATTACHMENT

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

SIGNED Gary L. Lamar Office- (801) 353-4397 Home (801) 789-7033
TITLE Drilling Foreman DATE 2-5-91

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

SCIENTIFIC DRILLING INTERNATIONAL

CASPER, WYOMING

PENNZOIL COMPANY

Well Name	: BAR-F #2-5B1
Location	: DUCHESNE COUNTY, UTAH
	: SEC. 5, T2S, R1W
SHL	:
Date	: 1/06/91
Job No.	: 41D1090124
Directional Driller	: STEVE COCHRAN

This survey is correct to the best of my knowledge
and is supported by actual field data.

Steve Cochran COMPANY REPRESENTATIVE

SCIENTIFIC DRILLING INTERNATIONAL

Customer : PENNZOIL COMPANY
Well Name : BAR-F #2-5B1
Location : DUCHESNE COUNTY, UTAH
: SEC. 5, T2S, R1W
SHL :

Date 1/06/91
Filename : BAR_F_M

No Interpolation

Plane of Vertical Section : N 9.90°E
Latitude & Departure relate to : PLATFORM CENTER
Vertical Section Originates at : PLATFORM CENTER
Slot Coordinates : Lat 0.000ft
: Dep 0.000ft
Directions Referenced To : PLATFORM NORTH
Depth at Drill Floor : 0.00 ft

Calculation Method : MINIMUM CURVATURE

Magnetic Declination :+13° 0.000'E
Platform north : +0° 0' 0'' (T)
Grid convergence : +0.0000°

SCIENTIFIC DRILLING INTERNATIONAL

Customer : PENNZOIL COMPANY
Well Name : BAR-F #2-5B1
Location : DUCHESNE COUNTY, UTAH
: SEC. 5, T2S, R1W
SHL :

Date 1/06/91
Filename : BAR_F_M

No Interpolation

M. DEPTH ft	INC deg	DIRECT'N deg	C/L ft	T V D ft	V/S ft	N/S- ft	E/W- ft	DLS °/100
2657.00	0.46	N67.68°W	0	2657.00	2.26	4.00	-9.80	0.00
2749.00	0.20	S 6.71°W	92	2749.00	2.17	3.98	-10.16	0.60
2842.00	0.03	S39.51°E	93	2842.00	2.00	3.80	-10.16	0.19
2934.00	0.55	S69.90°W	92	2934.00	1.76	3.63	-10.56	0.61
3027.00	0.25	S10.31°W	93	3027.00	1.33	3.28	-11.02	0.51
3119.00	0.46	N83.65°W	92	3118.99	1.11	3.12	-11.42	0.55
3212.00	0.17	N39.04°W	93	3211.99	1.18	3.27	-11.88	0.39
3304.00	0.44	S34.49°W	92	3303.99	0.95	3.08	-12.17	0.56
3397.00	0.45	S 7.39°W	93	3396.99	0.26	2.43	-12.41	0.22
3489.00	0.28	S 8.98°W	92	3488.99	-0.33	1.85	-12.50	0.18
3582.00	0.15	S35.44°E	93	3581.99	-0.64	1.52	-12.46	0.22
3674.00	0.37	S89.83°W	92	3673.99	-0.78	1.42	-12.69	0.51
3767.00	0.25	S26.57°W	93	3766.99	-1.02	1.24	-13.08	0.37
3859.00	0.57	S52.34°W	92	3858.98	-1.55	0.78	-13.53	0.39
3951.00	0.14	S26.95°W	92	3950.98	-2.00	0.40	-13.94	0.49
4044.00	0.39	S77.49°W	93	4043.98	-2.23	0.23	-14.31	0.34
4136.00	0.29	S 8.37°E	92	4135.98	-2.57	-0.06	-14.58	0.51
4229.00	0.31	S77.13°W	93	4228.98	-2.89	-0.35	-14.79	0.44
4321.00	0.20	S36.96°W	92	4320.98	-3.13	-0.54	-15.13	0.22
4414.00	0.62	S49.05°W	93	4413.97	-3.66	-1.00	-15.60	0.46
4496.00	0.48	S 8.62°W	82	4495.97	-4.35	-1.63	-15.99	0.49
4599.00	0.91	S32.36°W	103	4598.96	-5.54	-2.74	-16.49	0.49
4691.00	0.47	S 5.71°W	92	4690.96	-6.59	-3.74	-16.92	0.58
4784.00	0.54	S22.82°E	93	4783.95	-7.34	-4.52	-16.79	0.28
4876.00	0.63	S22.84°W	92	4875.95	-8.20	-5.39	-16.82	0.50
4969.00	0.45	S12.08°E	93	4968.94	-9.03	-6.21	-16.94	0.39
5061.00	0.81	S11.07°W	92	5060.94	-10.02	-7.21	-16.99	0.47
5154.00	0.92	S 4.66°E	93	5153.93	-11.40	-8.60	-17.06	0.28
5246.00	0.65	S11.65°E	92	5245.92	-12.60	-9.84	-16.89	0.31
5339.00	0.57	S19.22°W	93	5338.92	-13.55	-10.80	-16.94	0.36
5431.00	0.57	S17.79°W	92	5430.91	-14.45	-11.66	-17.23	0.02
5524.00	0.39	S13.38°W	93	5523.91	-15.23	-12.41	-17.44	0.20
5616.00	0.85	S26.54°E	92	5615.90	-16.09	-13.33	-17.21	0.66
5709.00	0.62	S11.47°W	93	5708.89	-17.15	-14.44	-17.00	0.57
5801.00	1.02	S 1.22°E	92	5800.88	-18.45	-15.74	-17.08	0.48
5894.00	0.78	S23.12°E	93	5893.87	-19.79	-17.15	-16.82	0.45
5986.00	0.96	S 1.60°E	92	5985.86	-21.07	-18.50	-16.55	0.40
6079.00	0.35	S 4.13°E	93	6078.86	-22.11	-19.56	-16.51	0.66
6171.00	0.82	S 8.93°E	92	6170.85	-23.00	-20.49	-16.38	0.51
6263.00	0.39	S36.35°E	92	6262.85	-23.84	-21.40	-16.10	0.55

SCIENTIFIC DRILLING INTERNATIONAL

Customer : PENNZOIL COMPANY
Well Name : BAR-F #2-5B1
Location : DUCHESNE COUNTY, UTAH
: SEC. 5, T2S, R1W
SHL :

Date 1/06/91
Filename : BAR_F_M

No Interpolation

M. DEPTH ft	INC deg	DIRECT'N deg	C/L ft	T V D ft	V/S ft	N/S- ft	E/W- ft	DLS °/100
6356.00	0.84	S40.54°E	93	6355.84	-24.50	-22.17	-15.47	0.49
6448.00	1.02	S14.84°E	92	6447.83	-25.67	-23.47	-14.82	0.49
6541.00	0.94	S14.33°E	93	6540.81	-27.12	-25.01	-14.42	0.09
6633.00	1.01	S16.04°E	92	6632.80	-28.54	-26.52	-14.01	0.08
6726.00	0.69	S39.01°E	93	6725.79	-29.64	-27.75	-13.43	0.50
6818.00	0.94	S 4.32°E	92	6817.78	-30.74	-28.93	-13.02	0.59
6911.00	0.96	S13.14°E	93	6910.77	-32.19	-30.45	-12.79	0.16
7003.00	0.27	S10.37°W	92	7002.77	-33.12	-31.41	-12.65	0.78
7096.00	0.33	S81.69°E	93	7095.76	-33.33	-31.67	-12.42	0.47
7188.00	0.38	S11.77°W	92	7187.76	-33.63	-32.00	-12.22	0.56
7281.00	0.24	S47.12°E	93	7280.76	-34.04	-32.44	-12.14	0.35
7373.00	0.70	S43.67°E	92	7372.76	-34.48	-32.97	-11.62	0.50
7466.00	0.33	S44.08°E	93	7465.75	-34.98	-33.58	-11.04	0.40
7558.00	0.87	S32.81°E	92	7557.75	-35.64	-34.36	-10.47	0.60
7651.00	0.84	S50.91°E	93	7650.74	-36.50	-35.38	-9.56	0.29
7743.00	0.43	S49.68°E	92	7742.73	-37.00	-36.03	-8.78	0.45
7836.00	0.65	S39.92°E	93	7835.73	-37.52	-36.66	-8.17	0.26
7928.00	0.27	S49.57°E	92	7927.73	-37.96	-37.20	-7.67	0.42
8021.00	0.50	S11.82°W	93	8020.72	-38.48	-37.74	-7.59	0.47
8113.00	0.62	S15.99°W	92	8112.72	-39.38	-38.61	-7.81	0.14
8206.00	0.64	S26.37°W	93	8205.71	-40.37	-39.56	-8.18	0.12
8298.00	1.13	S 2.38°W	92	8297.70	-41.77	-40.92	-8.44	0.66
8391.00	0.81	S 8.99°W	93	8390.69	-43.33	-42.49	-8.58	0.36
8483.00	0.49	S36.04°E	92	8482.68	-44.26	-43.45	-8.45	0.63
8575.00	0.14	S32.88°E	92	8574.68	-44.61	-43.86	-8.16	0.38
8668.00	0.27	S84.08°W	93	8667.68	-44.76	-43.98	-8.32	0.38
8760.00	0.43	S35.22°E	92	8759.68	-45.06	-44.29	-8.33	0.66
8853.00	0.39	S67.82°E	93	8852.68	-45.37	-44.69	-7.84	0.25
8945.00	0.37	S65.04°E	92	8944.68	-45.52	-44.93	-7.28	0.03
9038.00	0.24	S70.66°E	93	9037.68	-45.63	-45.12	-6.82	0.14
9130.00	0.04	S23.39°E	92	9129.68	-45.68	-45.22	-6.63	0.23
9223.00	0.09	S54.32°W	93	9222.68	-45.76	-45.29	-6.68	0.10
9315.00	0.15	N51.95°E	92	9314.68	-45.73	-45.26	-6.64	0.26
9408.00	0.42	S87.81°E	93	9407.67	-45.59	-45.20	-6.20	0.34
9500.00	0.46	S29.61°E	92	9499.67	-45.83	-45.53	-5.68	0.47
9593.00	0.67	N87.97°E	93	9592.67	-46.01	-45.84	-4.96	0.66
9685.00	0.47	S67.51°E	92	9684.66	-45.98	-45.96	-4.07	0.34
9778.00	0.76	S80.67°E	93	9777.66	-46.05	-46.21	-3.11	0.34
9870.00	0.41	S21.85°E	92	9869.65	-46.33	-46.61	-2.38	0.71
9962.00	0.45	S13.52°E	92	9961.65	-46.94	-47.27	-2.18	0.08

SCIENTIFIC DRILLING INTERNATIONAL

Customer : PENNZOIL COMPANY
Well Name : BAR-F #2-5B1
Location : DUCHESNE COUNTY, UTAH
: SEC. 5, T2S, R1W
SHL :

Date 1/06/91
Filename : BAR_F_M

No Interpolation

M. DEPTH ft	INC deg	DIRECT'N deg	C/L ft	T V D ft	V/S ft	N/S- ft	E/W- ft	DLS °/100
10055.00	0.50	S41.50°E	93	10054.65	-47.53	-47.93	-1.82	0.25
10087.00	0.46	N85.83°E	32	10086.65	-47.58	-48.02	-1.60	1.34
10400.00	0.50	S37.00°E	313	10399.64	-48.21	-49.02	0.47	0.15
10442.00	1.30	N36.60°E	42	10441.63	-47.91	-48.79	0.87	3.62
10474.00	5.60	N12.70°E	32	10473.57	-46.03	-46.97	1.43	13.88
10506.00	9.10	N10.10°E	32	10505.30	-41.93	-42.95	2.21	10.98
10537.00	14.20	N 6.00°E	31	10535.65	-35.68	-36.76	3.04	16.66
10569.00	18.50	N 4.60°E	32	10566.35	-26.71	-27.79	3.86	13.49
10600.00	22.20	N 5.30°E	31	10595.41	-15.97	-17.05	4.80	11.96
10631.00	25.60	N 7.40°E	31	10623.75	-3.44	-4.57	6.20	11.30
10662.00	29.40	N 7.80°E	31	10651.24	10.86	9.61	8.10	12.27
10692.00	33.10	N 8.10°E	30	10676.89	26.41	25.02	10.25	12.34
10720.00	36.40	N 8.80°E	28	10699.89	42.37	40.81	12.60	11.87
10751.00	39.50	N 9.50°E	31	10724.33	61.43	59.63	15.63	10.10
10782.00	43.10	N 9.90°E	31	10747.62	81.88	79.79	19.08	11.64
10813.00	47.70	N10.60°E	31	10769.38	103.95	101.50	23.02	14.93
10844.00	53.50	N10.60°E	31	10789.04	127.89	125.04	27.42	18.71
10876.00	58.40	N 9.90°E	32	10806.96	154.40	151.12	32.13	15.42
10907.00	64.20	N10.20°E	31	10821.84	181.58	177.88	36.88	18.73
10938.00	66.20	N10.20°E	31	10834.84	209.71	205.58	41.86	6.45
10969.00	66.00	N10.20°E	31	10847.40	238.06	233.47	46.88	0.64
11001.00	66.40	N10.20°E	32	10860.31	267.33	262.29	52.06	1.25
11033.00	67.50	N10.20°E	32	10872.84	296.78	291.27	57.28	3.44
11062.00	68.60	N10.20°E	29	10883.68	323.68	317.74	62.04	3.79
11095.00	69.00	N 9.90°E	33	10895.62	354.44	348.04	67.41	1.48
11126.00	69.20	N10.20°E	31	10906.67	383.40	376.55	72.46	1.11
11158.00	69.10	N 9.90°E	32	10918.06	413.31	406.00	77.68	0.93
11190.00	69.10	N10.20°E	32	10929.48	443.20	435.43	82.90	0.88
11220.00	69.20	N 9.90°E	30	10940.16	471.24	463.04	87.79	0.99
11251.00	68.70	N10.20°E	31	10951.29	500.17	491.52	92.84	1.85
11282.00	68.80	N10.20°E	31	10962.53	529.06	519.96	97.96	0.33
11313.00	68.70	N10.20°E	31	10973.76	557.95	548.40	103.07	0.33
11343.00	68.80	N10.20°E	30	10984.64	585.91	575.91	108.02	0.34
11373.00	69.00	N10.60°E	30	10995.44	613.90	603.44	113.08	1.41
11405.00	69.30	N10.90°E	32	11006.83	643.80	632.82	118.65	1.28
11436.00	69.30	N10.90°E	31	11017.78	672.79	661.30	124.14	0.00
11468.00	68.90	N10.20°E	32	11029.20	702.69	690.69	129.61	2.40
11499.00	68.30	N10.60°E	31	11040.51	731.55	719.08	134.82	2.28
11527.00	68.30	N10.90°E	28	11050.86	757.56	744.63	139.67	1.00
11560.00	69.40	N10.20°E	33	11062.77	788.33	774.89	145.31	3.88

SCIENTIFIC DRILLING INTERNATIONAL

Customer : PENNZOIL COMPANY
Well Name : BAR-F #2-5B1
Location : DUCHESNE COUNTY, UTAH
: SEC. 5, T2S, R1W
SHL :

Date 1/06/91
Filename : BAR_F_M

No Interpolation

M. DEPTH ft	INC deg	DIRECT'N deg	C/L ft	T V D ft	V/S ft	N/S- ft	E/W- ft	DLS °/100
11621.00	71.30	N 9.90°E	61	11083.28	845.78	831.45	155.33	3.15
11650.00	70.80	N10.20°E	29	11092.70	873.21	858.46	160.12	1.98
11682.00	70.40	N 9.50°E	32	11103.33	903.39	888.20	165.28	2.41
11714.00	69.40	N 9.90°E	32	11114.33	933.44	917.82	170.35	3.34
11745.00	69.00	N 9.50°E	31	11125.33	962.42	946.39	175.23	1.77
11776.00	69.10	N 9.50°E	31	11136.42	991.37	974.94	180.01	0.33
11808.00	70.40	N 9.20°E	32	11147.49	1021.39	1004.56	184.88	4.16
11840.00	71.90	N 9.20°E	32	11157.83	1051.67	1034.45	189.72	4.69
11871.00	71.80	N 9.20°E	31	11167.49	1081.13	1063.53	194.43	0.33
11903.00	71.70	N 9.20°E	32	11177.51	1111.51	1093.53	199.29	0.32
11935.00	71.80	N 9.90°E	32	11187.53	1141.90	1123.50	204.34	2.10
11967.00	71.80	N10.20°E	32	11197.53	1172.30	1153.44	209.64	0.89
11999.00	72.00	N11.30°E	32	11207.47	1202.72	1183.32	215.31	3.33
12031.00	71.90	N11.30°E	32	11217.38	1233.13	1213.15	221.28	0.32
12063.00	71.70	N11.60°E	32	11227.38	1263.52	1242.95	227.31	1.09
12094.00	71.80	N12.00°E	31	11237.09	1292.94	1271.77	233.33	1.27
12125.00	71.70	N11.60°E	31	11246.79	1322.37	1300.58	239.35	1.27
12156.00	72.00	N11.60°E	31	11256.45	1351.81	1329.44	245.27	0.97
12188.00	72.40	N12.00°E	32	11266.23	1382.26	1359.26	251.51	1.73
12219.00	72.40	N12.00°E	31	11275.61	1411.79	1388.17	257.65	0.00
12251.00	72.10	N11.60°E	32	11285.36	1442.25	1418.00	263.88	1.52
12283.00	72.00	N12.00°E	32	11295.22	1472.68	1447.80	270.11	1.23
12314.00	72.00	N12.30°E	31	11304.80	1502.14	1476.62	276.31	0.92
12346.00	72.20	N12.00°E	32	11314.64	1532.57	1506.39	282.72	1.09
12377.00	72.30	N12.30°E	31	11324.09	1562.07	1535.25	288.93	0.98
12407.00	72.60	N12.30°E	30	11333.14	1590.65	1563.20	295.03	1.00
12439.00	72.80	N12.30°E	32	11342.65	1621.17	1593.05	301.54	0.62
12471.00	72.40	N12.30°E	32	11352.22	1651.68	1622.89	308.04	1.25
12501.00	72.80	N12.70°E	30	11361.19	1680.28	1650.83	314.24	1.84
12532.00	72.50	N12.30°E	31	11370.44	1709.84	1679.72	320.64	1.57
12563.00	73.00	N12.70°E	31	11379.63	1739.41	1708.63	327.05	2.03
12595.00	73.30	N13.00°E	32	11388.90	1770.00	1738.48	333.86	1.30
12627.00	73.30	N13.00°E	32	11398.10	1800.60	1768.35	340.76	0.00
12658.00	73.80	N13.00°E	31	11406.88	1830.29	1797.32	347.44	1.61
12689.00	73.80	N12.70°E	31	11415.53	1860.02	1826.34	354.07	0.93
12720.00	73.90	N13.40°E	31	11424.15	1889.75	1855.35	360.79	2.19
12751.00	73.80	N13.40°E	31	11432.77	1919.47	1884.31	367.69	0.33
12782.00	74.10	N13.40°E	31	11441.34	1949.21	1913.30	374.59	0.97
12809.00	73.90	N13.00°E	27	11448.79	1975.12	1938.56	380.52	1.61
12843.00	74.00	N13.00°E	34	11458.19	2007.75	1970.40	387.87	0.30

SCIENTIFIC DRILLING INTERNATIONAL

Customer : PENNZOIL COMPANY
Well Name : BAR-F #2-5B1
Location : DUCHESNE COUNTY, UTAH
: SEC. 5, T2S, R1W
SHL :

Date 1/06/91
Filename : BAR_F_M

No Interpolation

M. DEPTH ft	INC deg	DIRECT'N deg	C/L ft	T V D ft	V/S ft	N/S- ft	E/W- ft	DLS °/100
12874.00	73.80	N13.40°E	31	11466.78	2037.48	1999.40	394.67	1.40
12906.00	73.60	N13.40°E	32	11475.76	2068.14	2029.28	401.79	0.62
12937.00	73.40	N13.80°E	31	11484.57	2097.80	2058.17	408.78	1.40
12968.00	73.50	N13.80°E	31	11493.40	2127.45	2087.02	415.87	0.33
13025.00	73.50	N13.80°E	57	11509.59	2181.97	2140.10	428.90	0.00

Origin of Bottom Hole Closure PLATFORM CENTRE
Bottom Hole Closure 2183 ft N11.33°E

State UT
Conf.

DOUBLE JACK TESTING & SERVICES, INC.

PHONE (801) 781-0448

B.O.P. TEST REPORT

O.P. TEST PERFORMED ON (DATE) 11-29-90

L COMPANY Pennzoil

LL NAME & NUMBER Bar F 2-5B1 43-013-31286 dil

CTION 5

WNSHIP 2S

NGE 1W

UNTY & STATE Duchene UT

ILLING CONTRACTOR For West #6

L COMPANY SITE REPRESENTATIVE Denny Lamon

G TOOL PUSHER Tim Ball

STED OUT OF Vernal UT

TIFIED PRIOR TO TEST State

PIES OF THIS TEST REPORT SENT TO: Pennzoil
State
For West

GINAL CHART & TEST REPORT ON FILE AT: Vernal office

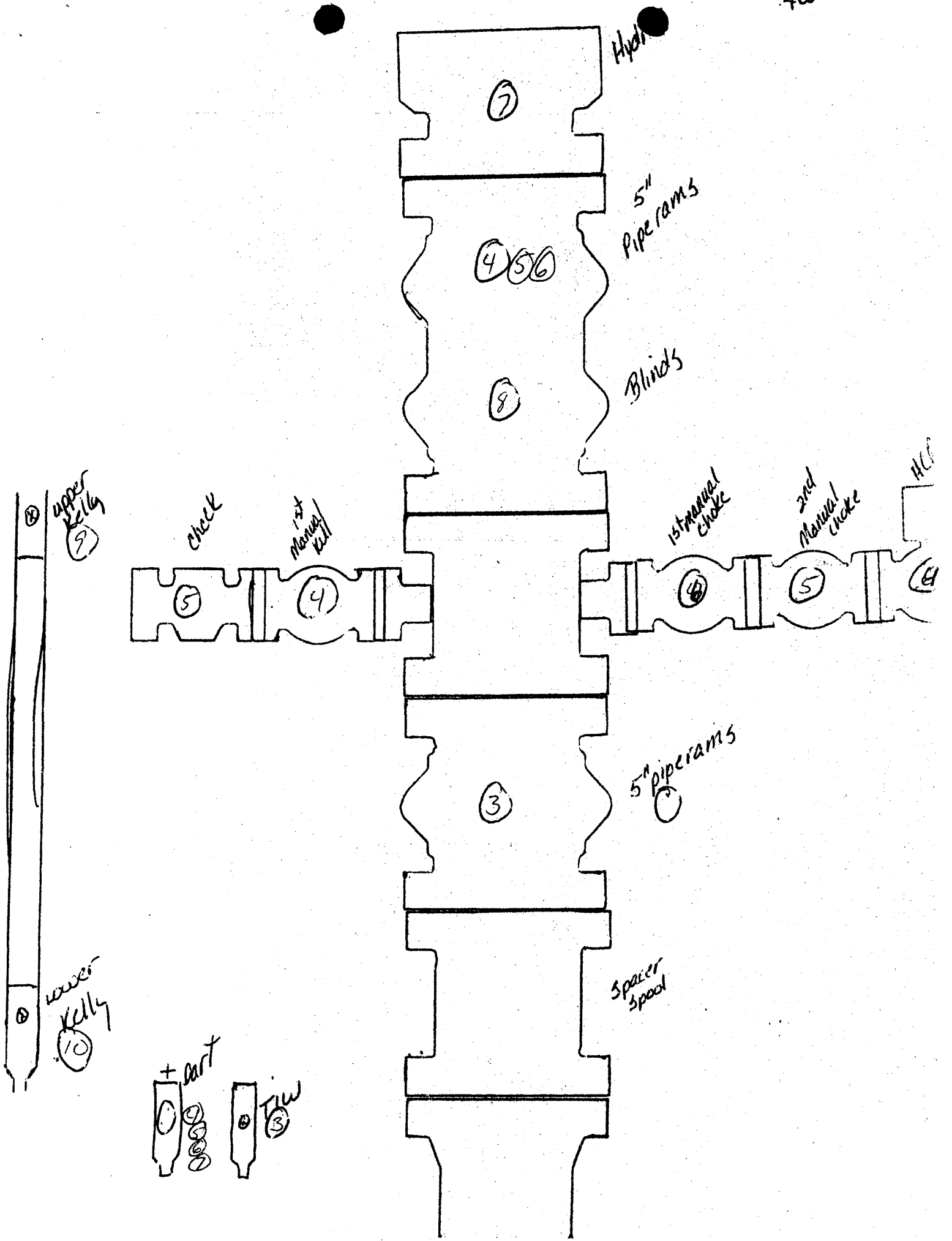
TESTED BY: DOUBLE JACK TESTING & SERVICES, INC.
1225 E HWY 40 #4
P O BOX 828
VERNAL, UTAH 84078

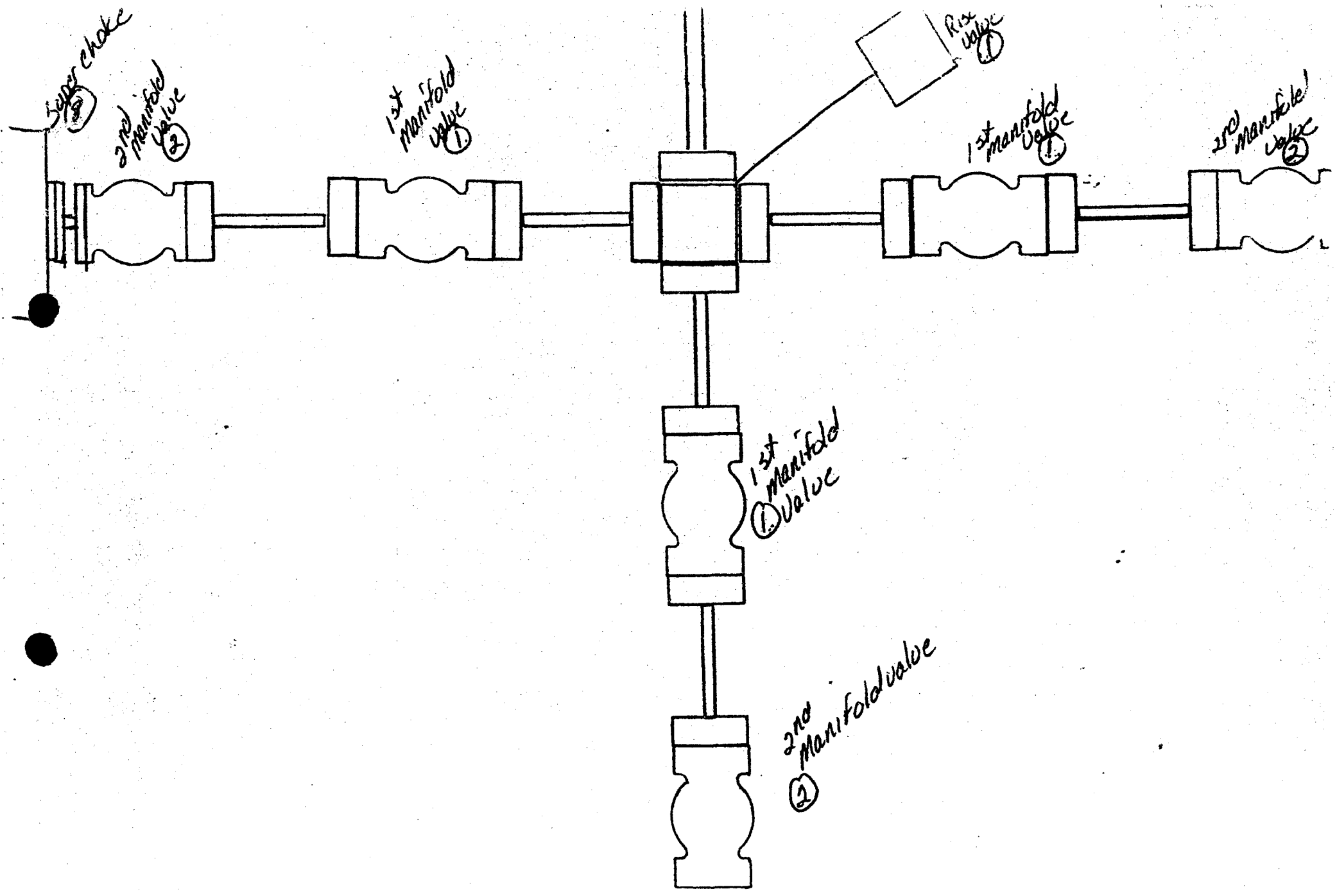
RECEIVED
MAR 11 1991
DIVISION OF
OIL GAS & MINING

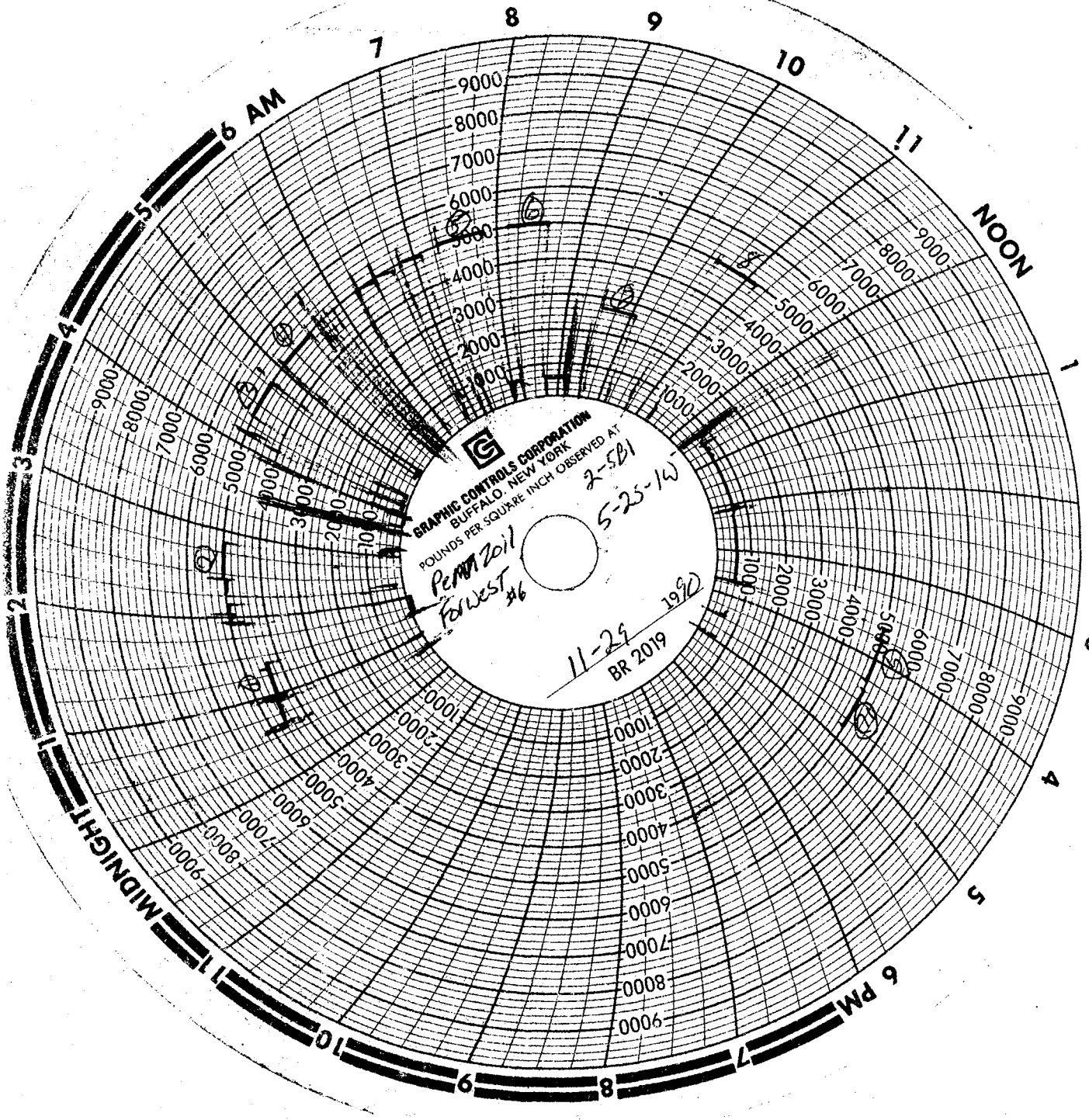
COMPANY	LEASE AND WELL NAME #	DATE OF TEST	RIG #
Pennzoil	Bar F 2-5 B1	11-29-90	Forwes.

TEST #	TIME		
1	8:23-8:33	inside Choke Valves manifold	5,000
2	8:52-9:02	out side Choke manifold	5,000
3	11:57-12:07	Lower Pipe Rams, T.I.W.	5,000
4	12:12-12:22	Upper Pipe Rams H.C.R., inside kill, Dart	5,000
5	12:52-1:02	Upper Pipes 2 manual Choke kill check	5,000
6	1:15-1:25	Upper Pipes 2 manual Choke	5,000
7	1:44-1:54	Hydril	2,500
8	2:06-2:16	Blinds Super Choke	5,000
9	3:49-3:59	Upper Kelly	5,000
10	4:01-4:11	Lower Kelly	5,000

4wes


Hydr
7
5" Piperams
4 5 6
Blinds
8
upper Kelly
9
check
1st Manual Kill
5
4
1st manual choke
2nd Manual choke
5
lower Kelly
10
5" piperams
3
Spacer Spool
+ cart
4
5
6
7
TIW
3


Super choke
(8)
2nd manifold valve
(2)
1st manifold valve
(1)
Rix valve
(1)
1st manifold valve
(1)
2nd manifold valve
(2)
1st manifold valve
(1)
2nd manifold valve
(2)


GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
POUNDS PER SQUARE INCH OBSERVED AT
2-581
5-25-10
Penn Zoil
Forwest #6
11-29 1990
BR 2019
6 AM
NOON
6 PM
MIDNIGHT

State Ut.

DOUBLE JACK TESTING & SERVICES, INC.

PHONE (801) 781-0448

B.O.P. TEST REPORT

O.P. TEST PERFORMED ON (DATE) 12-30-90

L COMPANY Pennzoil

LL NAME & NUMBER 2-5 B1 43-013-31286

CTION 5

WNSHIP 2S

NGE 1W

UNTY & STATE Duchene UT

ILLING CONTRACTOR Forwest #6

_ COMPANY SITE REPRESENTATIVE Jim

S TOOL PUSHER Tim Row

STED OUT OF Vernal

TIFIED PRIOR TO TEST State

PIES OF THIS TEST REPORT SENT TO: Pennzoil
Forwest
State

GINAL CHART & TEST REPORT ON FILE AT: Vernal Ut.

TESTED BY: DOUBLE JACK TESTING & SERVICES, INC.
1225 E HWY 40 #4
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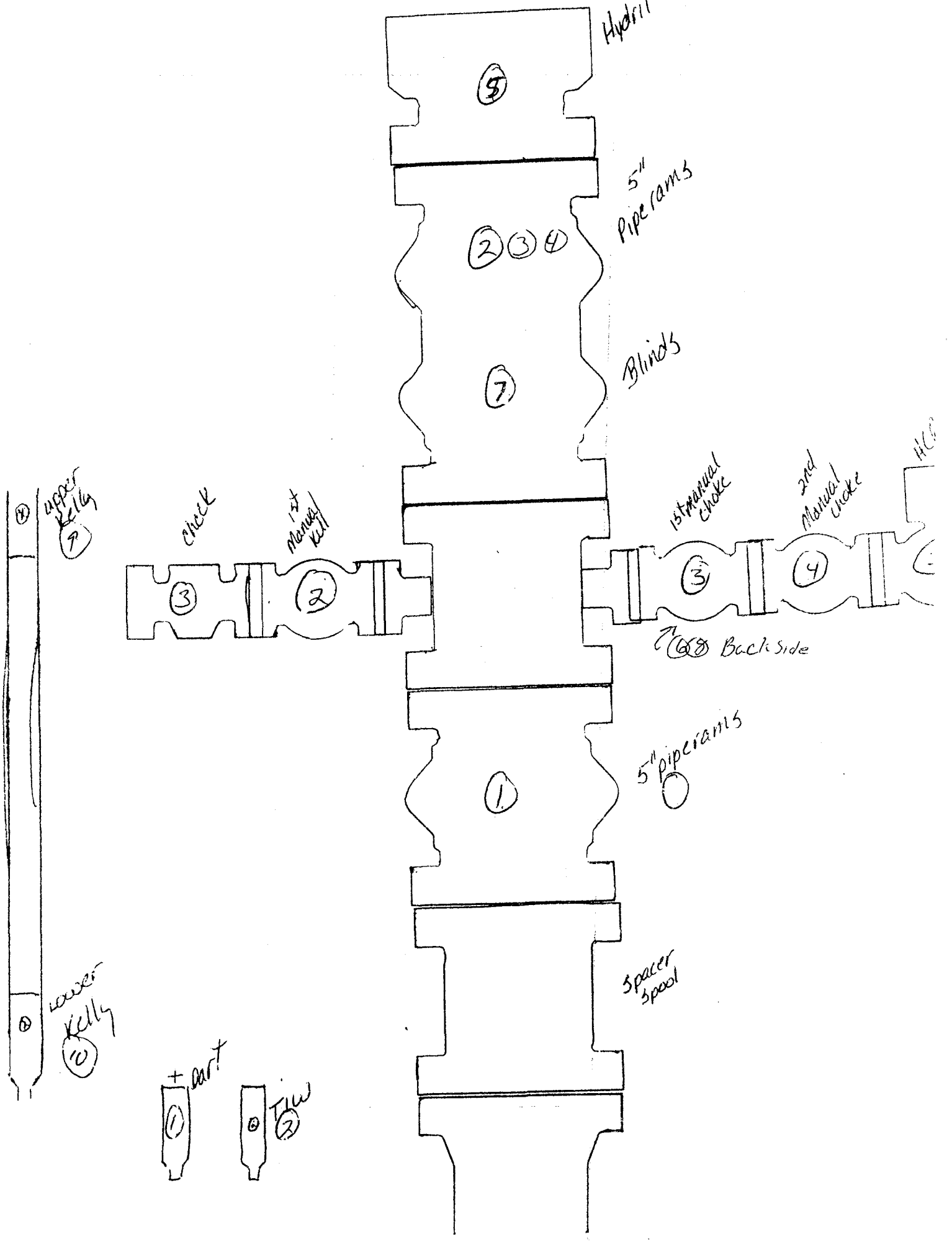
VERNAL, UTAH 84078

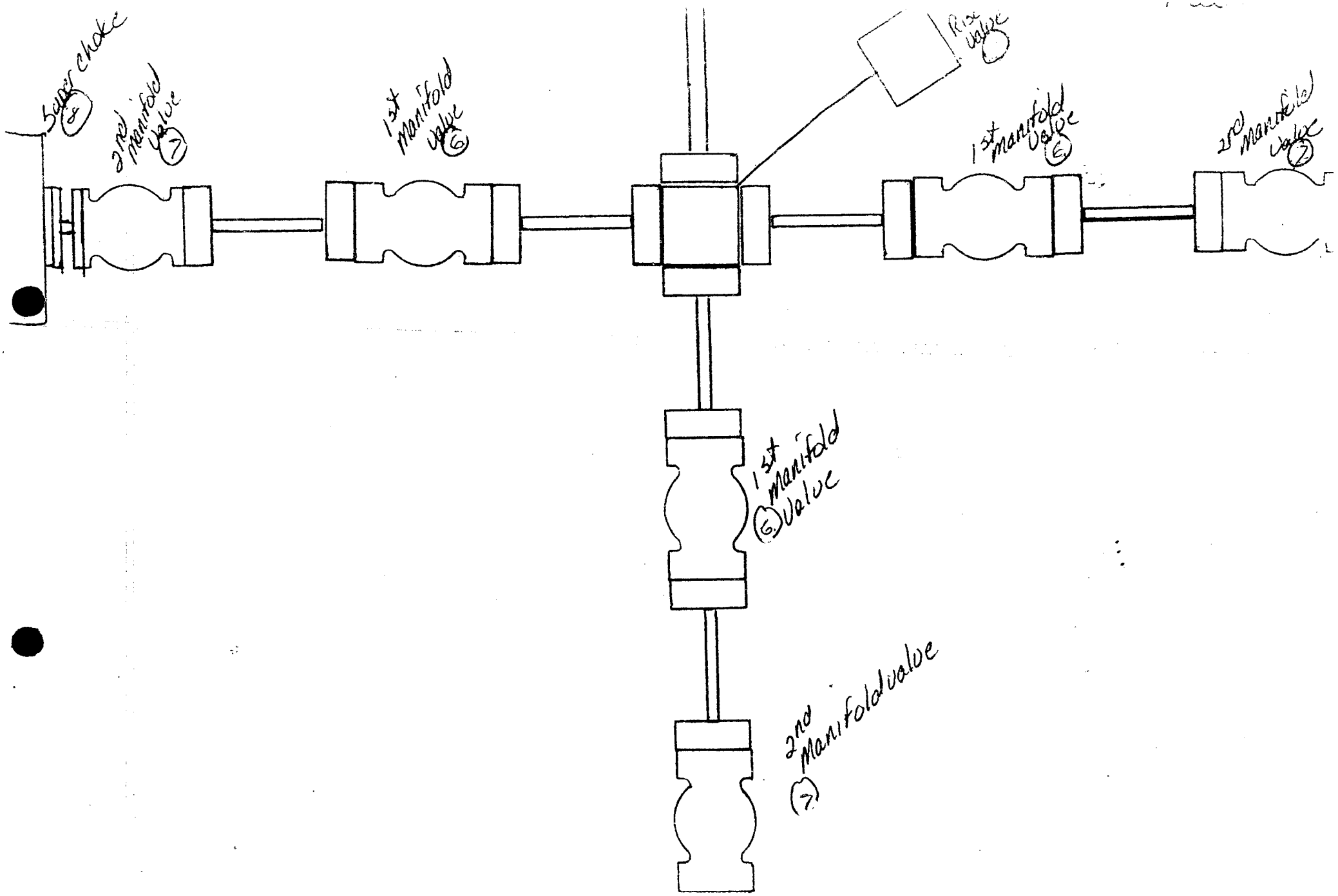
RECEIVED
MAR 11 1991
DIVISION OF
OIL GAS & MINING

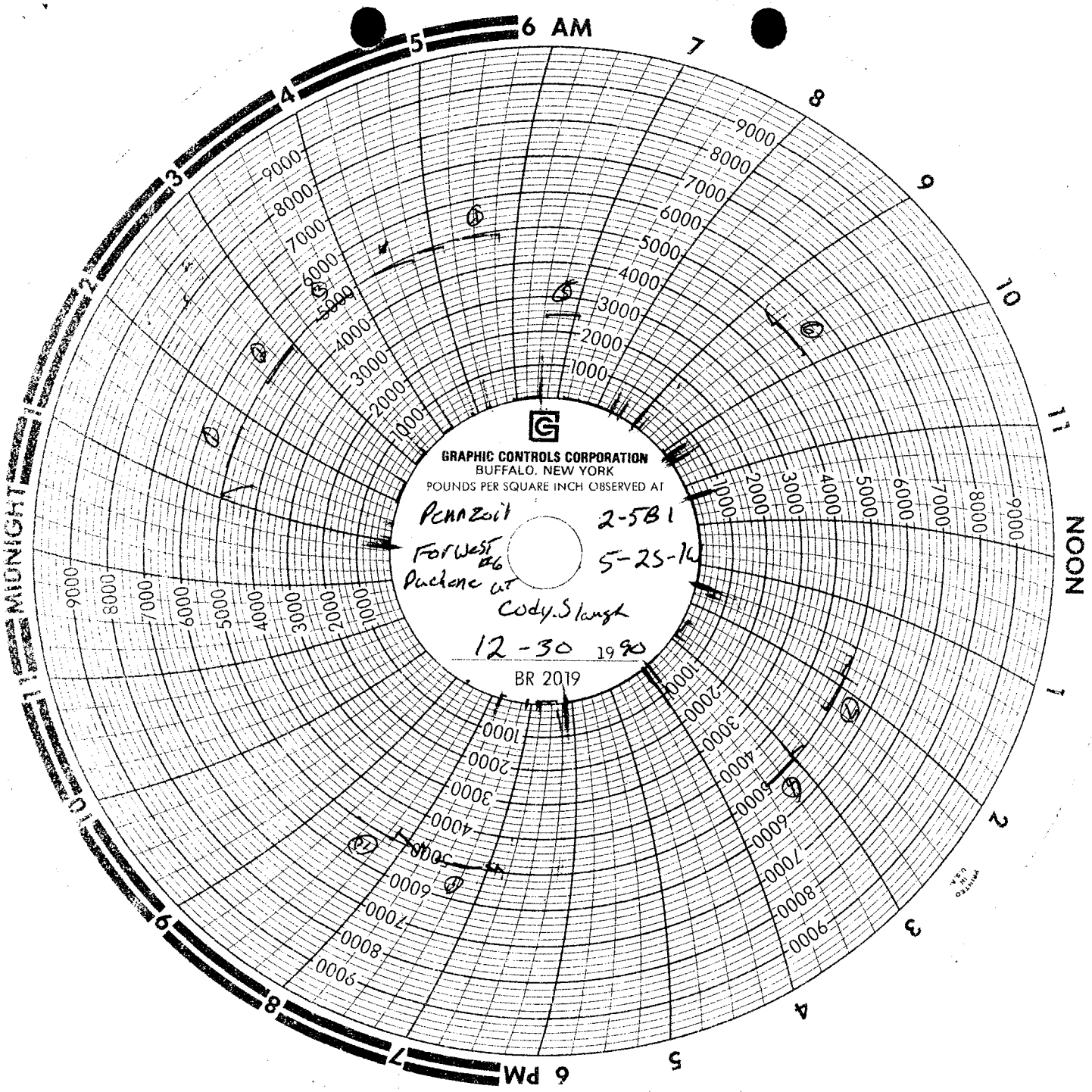
COMPANY	LEASE AND WELL NAME #	DATE OF TEST	RIG # AND N
Pennzoil	2-5B1	12-30-90	Forwest #6

TEST#	TIME		
1	7:33-7:43	lower Pipe Rams Tiw	5,000
2	7:55-8:05	upper Pipe rams, inside Hill, H.C.R. Part	5,000
3	8:14-8:24	upper Pipe Rams ~~2~~ Kill Check 1st manual choke	5,000
4	8:52-9:02	upper Pipe Rams, 2nd manual choke	5,000
5	9:16-9:26	Hydril	2,500
6	10:13-10:23	Blinds inside choke manifoild	5,000
7	11:25-11:35	Blinds, out side choke manifoild	5,000
8	11:45-11:55	~~Blinds~~ Sudder choke kill line valve	5,000
9	1:42-1:52	Lower kelly	5,000
10	2:06-2:16	upper kelly	5,000

4 West


Hydril
5
5" Piperams
2 3 4
Blinds
7
upper Kelly
9
check
1st Manual Kill
3
2
1st manual choke
2nd Manual choke
3
4
Back Side
5" piperams
1
Spacer Spool
lower Kelly
10
+ art
1
TIW
2


Super choke
(8)
2nd manifold valve
(7)
1st manifold valve
(6)
Rise valve
(5)
1st manifold valve
(6)
2nd manifold valve
(7)
1st manifold
(6) valve
2nd Manifold valve
(7)


GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
POUNDS PER SQUARE INCH OBSERVED AT
Pennzoil
2-5B1
Forwest #6
5-25-10
Duchene wt
Cody Slough
12-30 1990
BR 2019
6 AM
NOON
MIDNIGHT
6 PM

CONFIDENTIAL & PRIVILEGED

Form 9

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

6. Lease Designation and Serial Number

7. Indian Allottee or Tribe Name

SUNDRY NOTICES AND REPORTS ON WELLS

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

8. Unit or Communitization Agreement

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

9. Well Name and Number: Bar-F 2-5B1

2. Name of Operator: Pennzoil Exploration and Production Company

10. API Well Number: 43-013-31286-00

3. Address of Operator: P.O. Box 2967, Houston, Texas 77252-2967

4. Telephone Number: 713-546-4000

11. Field and Pool, or Wildcat: Bluebell

5. Location of Well
Footage : 600' FSL and 1543' FEL
QQ, Sec, T., R., M. : Section 5, T2S-R1W
County: Duchesne
State: UTAH

CONFIDENTIAL & PRIVILEGED

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

NOTICE OF INTENT (Submit in Duplicate)

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

Approximate Date Work Will Start: 1/23/91

SUBSEQUENT REPORT (Submit Original Form Only)

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

Date of Work Completion: 5/21/91

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

* Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

01/23/91: MIRU pulling unit.
02/09/91: Finished cleaning out 5-1/2" liner down to 13,270'.
02/11/91: Set 5-1/2" CIBP at 13,265'. Tested casing to 2500 psi, held OK.
02/12/91: Finished running logs.
02/25/91: Perforated 10,171-13,180' (1310', 5240 holes).
03/05/91: Acidized 10,171-13,180' with 200,000 gallons 15% HCl.
03/21/91: Ran tracer log to determine acid distribution.
03/22/91: Ran production logs.
03/26/91: Attempted to clean out liner with coiled tubing. Could not get deeper than 12,629'.
04/04/91: Finished cleaning out 5-1/2" liner with mill down to 13,265'.
04/06/91: Re-ran tracer log to bottom to determine acid distribution.
04/15/91: Re-ran production logs.
04/24/91 to 05/12/91: Re-acidized perfs 10,171-13,180' as per attached.
05/21/91: Re-ran production logs and left well flowing. RD pulling unit.

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

Name & Signature: Ralph A. Williams — R. A. Williams
Title: Supervising Engineer
Date: 6-11-91

(State Use Only)

RECEIVED
JUN 20 1991
DIVISION OF OIL GAS & MINING

(8/90)

See Instructions on Reverse Side

FORM 01 - 4 (2)

PENNZOIL COMPANY

Interoffice Correspondence

May 13, 1991

TO: Ralph Williams

FROM: Jess Dullnig

SUBJECT: Bar-F 2-5B1 Straddle Packer Stimulation Summary

Below is a summary of the straddle packer treatments performed from 04/24/91 through 05/12/91:

Perforations	Zones	Net Ft	Holes	Desired Gals Acid	Actual Gals Acid Pumped	Avg Rate & Press	ISDP	5 Min
10,496-10,660	9	103	412	10,300	0 (see Note 1)			
10,673-10,830	7	79	316	3,950	0 (see Note 1)			
10,844-10,994	8	80	320	4,000	4,000	2.2 @ 3800	3300	2300
11,011-11,154	6	90	360	9,000	0 (see Note 1)			
11,177-11,328	5	58	232	2,900	2,900	3.1 @ 4000	3200	750
11,344-11,498	9	94	376	4,700	1,850 (see note 2)	3.8 @ 4000	1500	0
11,506-11,659	5	85	340	4,250	0 (see Note 1)			
11,698-11,866	7	72	288	3,600	1,500 (see Note 2)	1.6 @ 5400	700	100
11,988-12,090	4	28	112	1,400	1,400	2.8 @ 4000	3200	500
12,106-12,248	6	60	240	6,000	1,000 (see Note 2)	3.5 @ 4300	800	0
12,285-12,455	9	115	460	11,500	3,600 (see Note 2)	3.3 @ 4000	400	0
12,461-12,629	8	113	452	11,300	0 (see Note 1)			
12,638-12,785	6	74	296	7,400	7,400	3.4 @ 5300	4000	0
12,841-12,977	7	60	240	6,000	6,000	2.5 @ 5000	4000	100
13,035-13,180	6	56	224	5,600	2,400	2.0 @ 7800	400	0
TOTAL		1,167	4,668	91,900	32,050			

NOTE 1: Had communication during initial breakdown with formation water.
NOTE 2: Had communication during acid job.

The following interval was also isolated and treated with straddle packers:

Perforations	Zones	Net Ft	Holes	Desired Gals Acid	Actual Gals Acid Pumped	Avg Rate & Press	ISDP	5 Min
10,733-10,884	9	99	396	N/A	1,000 (see Note 2)	1.8 @ 4800	600	0

RAW/sjw
015/0610

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

CONFIDENTIAL & PRIVILEGED

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

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

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

2. NAME OF OPERATOR: Pennzoil Exploration and Production Company

3. ADDRESS OF OPERATOR: P.O. Box 2967, Houston, Texas 77346-2967

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 660' FSL and 1543' FEL
At top prod. interval reported below 660' FSL and 1544' FEL
At total depth 2999' FSL and 1059' FEL

RECEIVED SEP 09 1991 DIVISION OF OIL GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.: Fee Land
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT AGREEMENT NAME:
8. FARM OR LEASE NAME: Bar-F
9. WELL NO.: 2-5B1
10. FIELD AND POOL, OR WILDCAT: Bluebell
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Section 5, T2S-R1W

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
43-013-31286-00	8/14/90	Duchesne	Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
8/26/90	1/6/91	3/14/91	KB 5414'	5387'

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
13,275'	13,265'	N/A	→	XX	N/A

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
10,171-[redacted] Wasatch (MD) = [redacted] - 11,633' (TVD)

25. WAS DIRECTIONAL SURVEY MADE: Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN: DLL/MGRD FWS SDL/DSN

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
13-3/8"	54.5/61	2,517'	17-1/2"	1,960 sxs	
9-5/8"	43.5/47/53.5	10,150'	12-1/4"	2,080 sxs	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
5-1/2"	9735	13,270	1200	-

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	9559'	9559'

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

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

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)
3/6/91	Flowing	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
3/7/91	24	1"	→	782	2350	215	3000

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
90	0 (pkr)	→	782	2350	215	42.2

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

TEST WITNESSED BY: Jess Dullnig

35. LIST OF ATTACHMENTS: Perforation Detail, Acid Job

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

SIGNED Ralph C. Wells TITLE Supervising Engineer DATE 4-25-91

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

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

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Green River	5,314'	
Mahogany Bench	7,810'	
TGR3 (H)	9,004'	
Wasatch	10,600'	

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2/25/91

Fin perf Wasatch w/ 2 1/2" guns, 4 SPF, 90 deg phasing. Applied 2000 psi pmp press to 3 1/2" tbg throughout job to help reduce influx of mud into liner. Press remained fairly constant while perf. RD OWP and prep to flw tst well. Complete perf details follow. All depths fr HLS Compensated Spectral Natural Gamma Ray Log run 2/4/91.

10,171-10,190	11,271-11,294	12,339-12,346
10,200-10,205	11,302-11,308	12,352-12,366
10,216-10,233	11,314-11,328	12,370-12,384
10,248-10,258	11,344-11,352	12,391-12,396
10,269-10,272	11,358-11,363	12,403-12,409
10,288-10,292	11,369-11,387	12,414-12,428
10,296-10,307	11,394-11,406	12,438-12,455
10,312-10,817	11,413-11,432	12,461-12,471
10,333-10,347	11,437-11,451	12,476-12,487
10,357-10,360	11,458-11,463	12,494-12,500
10,382-10,402	11,481-11,488	12,505-12,510
10,413-10,416	11,492-11,498	12,514-12,534
10,424-10,433	11,506-11,518	12,540-12,566
10,436-10,439	11,551-11,566	12,580-12,600
10,452-10,466	11,575-11,607	12,614-12,629
10,475-10,478	11,624-11,643	12,638-12,651
10,496-10,502	11,652-11,659	12,664-12,682
10,506-10,520	11,698-11,703	12,694-12,703
10,525-10,542	11,720-11,724	12,707-12,712
10,549-10,560	11,764-11,792	12,722-12,744
10,572-10,578	11,799-11,806	12,778-12,785
10,581-10,602	11,822-11,834	12,841-12,848
10,616-10,621	11,842-11,855	12,858-12,863
10,625-10,630	11,863-11,866	12,868-12,880
10,642-10,660	11,988-11,992	12,906-12,921
10,673-10,687	12,027-12,036	12,933-12,940
10,733-10,738	12,067-12,076	12,955-12,962
10,748-10,754	12,084-12,090	12,970-12,977
10,757-10,760	12,106-12,113	13,035-13,042
10,764-10,776	12,139-12,145	13,052-13,076
10,784-10,795	12,152-12,160	13,094-13,100
10,802-10,830	12,170-12,180	13,106-13,113
10,844-10,850	12,200-12,207	13,119-13,123
10,852-10,862	12,226-12,248	13,172-13,180
10,866-10,884	12,285-12,301	
10,904-10,910	12,310-12,332	
10,926-10,932		
10,936-10,950		
10,967-10,977		
10,984-10,994		
11,011-11,016		
11,022-11,040		
11,048-11,068		
11,087-11,111		
11,125-11,134		
11,140-11,154		
11,177-11,181		
11,192-11,203		

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SEP 0 9 1991
DIVISION OF
OIL GAS & MINING

Tot net ft - 1310. Tot holes at 4 SPF - 5240.

3/05/91

RU Western Co and treated perfs 10,171-13,180' down 3 1/2" tbg w/ 200,000 gal 15% HCL acid and 85,000 gal 10# Brine containing 60,000# Benzoic acid flakes, 60,000# rock salt and 60,000# wax beads - observed fair diversion. Flshd w/ 2% KCL wtr. Tagged acid w/ RA isotopes. Avg inject rt - 31 bpm at 7350 psi. Max press - 9000 psi. ISDP - 4680 psi, 15 min - 4520 psi. RD Western and opened well to tank. Well flwd 514 BO and 940 BW on 1" choke w/ FTP - 325 psi. Last hr made 45 BO w/ a trace of wtr. Tot load - 7075 bbls. Tot rec - 940 bbls. 6135 BLTR.

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 2 6 1999

NOTICE

PennzEnergy Exploration and Production L.L.C. P.O. Box 2967 Houston, TX 77252-2967	:	Oil and Gas

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 2 6 1999

NOTICE

PennzEnergy Company P.O. Box 2967 Houston, TX 77252-2967	:	Oil and Gas

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)

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. 20 North Broadway, Suite 1500 Oklahoma City, Oklahoma 73102-8260	: : :	Oil and Gas U-0575A et al

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

FILED

DEC 30 1999

OKLAHOMA SECRETARY OF STATE

Devon Energy Production Company, L.P.

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:

Name of Organization	Type of Organization	Jurisdiction of Formation
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, Manager

RECEIVED

MAR 13 2000

DIVISION OF
OIL, GAS AND MINING

LD635381-001

OFFICE OF THE SECRETARY OF STATE

STATE OF OKLAHOMA

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: Brad Lacure

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH		4-KAS ✓
2. CDW ✓		5-~~SP~~ ✓
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	[illegible]	11113	[illegible]	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 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:

FORM 5

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

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.

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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. Clark

(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

(7/93)

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DIVISION OF
OIL, GAS AND MINING

DEVON ENERGY PRODUCTION COMPANY, L.P.
UTAH PROPERTIES

	API NO.	WELL NAME & NO.	LOCATION	COUNTY	FIELD NAME	LEASE NO. / AGREEMENT NO.
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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DIVISION OF
OIL, GAS AND MINING

DEVON ENERGY PRODUCTION COMPANY, L.P.
UTAH PROPERTIES

	API NO.	WELL NAME & NO.	LOCATION	COUNTY	FIELD NAME	LEASE NO. / AGREEMENT NO.
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	
[illegible]	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	
[illegible]	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

	API NO.	WELL NAME & NO.	LOCATION	COUNTY	FIELD NAME	LEASE NO. / AGREEMENT NO.
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	
[illegible]	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	

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DIVISION OF
OIL, GAS AND MINING

FORM 9

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

5. LEASE DESIGNATION AND SERIAL NUMBER: FEE

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

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

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

8. WELL NAME and NUMBER: BAR F 2-5B1

2. NAME OF OPERATOR: DEVON ENERGY PRODUCTION COMPANY, LP

9. API NUMBER: 4301331286

3. ADDRESS OF OPERATOR: P.O. BOX 290 CITY NEOLA STATE UT ZIP 84066 PHONE NUMBER: (435) 353-4121

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

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 600' FSL 1543' FEL COUNTY: DUCHESNE

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 5 2S 1W 6 STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☑ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☑ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
4/20/2005	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: PERFORATE LGR
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

SET CIBP @ 10,100', TEST TO 5,000#.

PERFORATE LOWER GREEN RIVER 9,032 - 9,946' WITH 76 HOLES. SET PKR AND ACIDIZE NEW PERFORATIONS. SWAB TEST.

FRAC LOWER GREEN RIVER WITH 90,000 GALS DELTA FRAC 200 & 250,000# 20/40 SAND WITH TRACER. RUN TRACER SURVEY. SWAB TEST.

LD PKR & DRILL OUT CIBP.

RETURN TO PRODUCTION FROM LOWER GREEN RIVER AND WASATCH 9,032 - 13,180' PERFORATIONS.

4-11-06
CHD

NAME (PLEASE PRINT) GEORGE GURR TITLE PRODUCTION FOREMAN

SIGNATURE _____ DATE 3/16/2006

(This space for State use only)

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS AND MINING
DATE: 3/21/06
BY: D. Sitt
* See 197-42

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DIV. OF OIL, GAS & MINING

(See Instructions on Reverse Side)

(5/2000)

BAR-F 2-5B1
SECTION 5, T2S,R1W
DUCHESNE COUNTY, UTAH

OBJECTIVE:

Isolate the Wasatch and perforate the LGR 9032-9946', Frac with 90,000 gallons 25# Delta Frac 200 and 250,000 lbs Premium White 20/40 sand down 9-5/8" casing.

DISCUSSION:

The Bar-F 2-5B1 was originally completed from the Wasatch perforations 10171-13,180' in 1991 and initially acidized with 200,000 gal of 15% Hcl. Later in 1991 the perforations were again acidized by isolating 16 intervals. 11 of the intervals communicated during the treatment.

The well has declined and current production is 13 BOPD, 21 MCFGPD and 15 BWPD.

The Lower Green River has multiple shows and has produced significantly from the Lamicq 2-6B1 1-1/2Miles to the South West. The well will be perforated, acidized and tested prior to being fraced in case of excessive water production.

API No.	43-013-31286	
Completion Date:	1991	
TD:	13,270'	TVD:
Casing:	13 3/8" 54.5 and 61# HC-80 & K-55 at 2517' 9 5/8" 53.5/47/43.5 # P-110 & N-80 LTC at 10,150' 5 ½" 23# P-110 from 9735-13270'.	
Perforations:	10171-13180	1991
Other:	Directional well	

WELL HISTORY:

With drilling rig on the well, cleaned out to TOL, liner top leaked, set a CIBP in the liner at 12,347', perforated four holes at 10,480', set a cement retainer at 9844' and squeezed with 270 sks cement. Cleaned out to TOL at 9735' and tested OK. Released drilling rig.

02-04-91	Ran CSNG/Dual spaced Neutron log on wireline/coiled tubing unit.
02-06-91	Ran CBL log on wireline/coiled tubing unit from 9500'-13,215'. Ran Halliburton PET log, hung tool at 12,620'.
02-08-91	Fished logging tool.
02-09-91	Cleaned out liner to 13,270'
02-11-91	Set CIBP at 13,265' with 2 7/8" drill pipe
02-12-91	Ran CBL on wireline from 2395 to 9705'.
02-25-91	Finished perforating 10,171-13,180' using wireline , 118 intervals, 1310', 5240 holes.
03-05-91	Acidized perforations 10,171-13,180' with 200,000 gals 15% HCL and 85,000 gals 10# brine with 60,000 lbs BAF, 60,000 lbs rock salt, and 60,000 lbs wax beads in 19 stages. Saw good diversion.
03-20-91	Ran OWP wireline, stopped at 12,629'
03-21-91	Ran tracer log to determine acid coverage.
03-22-91	Ran production log from 12,629' to 9900'.
03-26-91	Attempt to clean out liner with coiled tubing, unable to get through obstruction at 12,629'.
04-04-91	Finished cleaning out liner to 13,265' using 2 7/8" drillpipe, collars and mill.
04-06-91	Re-ran tracer log from 12400' to 13265'.
04-11-91	Finished running production tubing, well kicked off flowing.
04-15-91	Ran production log from 9400-13,265'.

05-12-91	Finished acidizing the interval 10,171-13,180' in 16 setting to isolate individual intervals. Only 5 setting out of 16 did not communicate while treating. See memo dated 5-13-91 from J. Dullnig to R. Williams for details.
05-13-91	Acidized all perforations 10,171-13,180' with 9700 gals 15% HCL with no diverter.
05-21-91	Ran production log, unable to get below 11,500'.
07-11-91	Installed submersible pump.
11-16-91	Converted to rod pump.

PROCEDURE:

1. MIRU workover rig, POOH with rods and tubing.
2. Run and set a CIBP at 10100' CBL depth. The top of the liner is at 9735'.
3. Load hole and test casing to 5000 #.
4. RU Electric Line and perforate 9032'-9946' 76 holes with centralized 2-1/2" gun with .26-.28" hole size.
5. TIH with 9-5/8" treating packer and acidize perforations with ball sealers as per Halliburton recommendation.
6. Test well
7. TOOH with tubing and install wellhead Isolation tool.
8. Frac per the attached Halliburton recommendation. Add a tracer to the frac for a tracer log.
9. Flow well back, Check TD and clean out to PBTD if needed. TIH with tubing and packer. Run a tracer survey to determine the frac coverage. Swab test.
10. TOOH with packer and drill out CIBP and clean out to PBTD. TOOH
11. Run the production equipment to pump test.

BAR-F 2-5B1 2005 LGR PERF & FRAC TREATMENT PERFS 9032-9946

Tom Jantz
April 6, 2005

UTAH DIVISION OF OIL, GAS AND MINING

NOTICE OF REPORTING PROBLEMS

Operator: Devon Energy Prod Co, LP. Account: N1275 Today's Date: 09/16/2008

Problems:

- [ ] Late Report(s)
- [ ] Inaccurate Report(s)
- [ ] Incomplete Report(s)
- [x] Other: No Subsequent Report

Failure to submit reports in a timely, accurate, and complete manner may result in the issuance of a Notice of Violation by the Division of Oil, Gas and Mining, and may result in the Division pursuing enforcement action as outlined in Rule R649-10, Administrative Procedures, and Section 40-6-11 of the Utah Code.

To avoid compliance action, these reporting problems should be resolved within 7 days.

Send reports to:

Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

Fax to:

(801) 359-3940

43 013 31286
Bar-F 2-5B1
2S 1W 5

Type of Report	Month(s) of Problem Report
[ ] Production – Form 10 [ ] Disposition – Form 11 [ ] Gas Plant – Form 13 [ ] Enhanced Recovery – UIC Form 2 [ ] Injection – UIC Form 3 [ ] Other _____	

Type of Report	Well Name(s)	API Number(s)	Drilling Commenced
[ ] Spud Notice – Form 9 [ ] Drilling Reports – Form 9 [ ] Well Completion Report – Form 8 [x] Other Subsequent Sundry	[x] List Attached		

Description of Problem:

Operator has submitted sundry of intents on the following wells that have been approved by DOGM. Per Rule 649-3-23, a subsequent report shall be submitted on Form 9, Sundry Notice, with in 30 days after completion. The report should show workover results, well status, work completion date, new perforation depths, etc.

If you have questions or concerns regarding this matter, please contact Rachel Medina at (801) 538-5260 .

cc: Compliance File
RAM
Well File
CHD

UTAH DIVISION OF OIL, GAS AND MINING

NOTICE OF REPORTING PROBLEMS

ATTACHMENT

Operator: Devon Energy Prod Co, LP. Account: N1275 Today's Date: 09/16/2008

Well Names	API Numbers	Drilling Commenced
Tomlinson Fed 1-25A2	4301330120	
Ute Tribal 3-18A2	4301330125	
Ute 2-6B3	4301331325	
Lamicq 1-20A2	4301330133	
L Boren U 3-15A-2	4301330086	
Edwards 3-10B1	4301331332	
SWD 4-11A2	4301320255	
SWD 4-11A2	4301320255	
Ute Triabl 1-6B3	4301330136	
Bar-F 2-5B1	4301331286	
Clyde Murray 1-2A2	4301330005	
Edwards 3-10B1	4301331332	
Chasel 1-18A-1	4301330030	
Freston ST 1-8B1	4301330294	

FORM 9

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

5. LEASE DESIGNATION AND SERIAL NUMBER: FEE

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

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

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

8. WELL NAME and NUMBER: BAR F 2-5B1

2. NAME OF OPERATOR: DEVON ENERGY PRODUCTION COMPANY, LP

9. API NUMBER: 4301331286

3. ADDRESS OF OPERATOR: P.O. BOX 290 CITY NEOLA STATE UT ZIP 84066 PHONE NUMBER: (435) 353-4121

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

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 600' FSL 1543' FEL COUNTY: DUCHESNE

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 5 2S 1W 6 STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☑ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
Date of work completion: 1/20/2009	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: PERFORATE LGR
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

Subsequent report for Notice of Intent dated 3/16/2006 to perforate, acidize & fracture treat Lower Green River.

LD 9-5/8" Baker Model 'D" pkr @ 9,716' set in 1991.

Set CIBP @ 10,090'; one sack cement on top of CIBP; test to 5,000#.

Perforate Lower Green River 9,206 - 9,646', 1 interval, 46 holes, 1 spf. Set pkr @ 9,003' and acidized new perforations w/ 5,000 gals 15% HCL w/ additives and dropped 43 perfpac balls. Swab test.

Did not complete Delta frac on Lower Green River.

LD pkr @ 9,003'.

Return to production from Lower Green River perforations 9,206 - 9,646'.

NAME (PLEASE PRINT) GEORGE GURR TITLE PRODUCTION FOREMAN

SIGNATURE DATE 2-6-09

(This space for State use only)

RECEIVED
FEB 09 2009
DIV. OF OIL, GAS & MINING

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

Bar F 2-5B1
43-013-31286
5 2s 1w

devon

BBA BAR F 2-5B1

Well Chronology

reperf

Property #: 063061-001 WI%: 81.40
State: UT County: DUCHESNE
Field Name: BLUEBELL

Tight Group: UNRESTRICTED
Spud Date: 8/26/1990
DHC: $0 CC: $271,378

AFE #:	AFE DRLG COST:	AFE COMP COST:	AFE TOTAL COST:
119544	$0	$305,000	$305,000

OPEN ZONES UP TO 03/19/09	TOP (ft)	BOT (ft)	TOT SH(ft)	STRINGS UP TO 03/19/09	O.D. (in.)	DEPTH (ft)
LOWER GREEN RIVER	9,206	9,646	14.00			

Event: RECOMPLETION Start: 12/15/2008 End: 1/20/2009
Contr: POOL WELL SERVICE/622 Rig Rls: 6/29/2001 TMD(ft): PBTMD(ft):
Object: COMPLETION Prod Sup: DHC($): $0 CC($): $271,378

Date: 12/16/2008 **Report #:** 1 **Daily Cost:** $6,798 **Cum. Cost:** $6,798 **TMD(ft):**

Other Reports for this day: None

Activities

SAFETY MEETING: LD HORSEHEAD. ROAD RIG 14.2 MILES TO BAR F 2-5B1. SPOT RIG & EQUIP. SHUTTLE VALVE ON AIR BRAKES LEAKING-RIG WON'T HOLD AIR. RU RIG, LD HORSEHEAD, PULL PUMP OFF SEAT, LD 1-1/2" X 36' POLISH ROD, 1 EA 8', 6', 6' X 1" PONY SUBS. HW W/ 70 BPW DOWN TBG. TOOH W/ 110 1" SLICK RODS. MOISTURE IN ENCODER BLOCKS WERE FALLING, DRY OUT PLUG. CONT TOOH W/ 114 SLICK 7/8" RODS, 134 SLICK 3/4" RODS, 21 SLICK 1" RODS & ROD PUMP. SWI. TIE RIG BACK. XO TO TBG EQUIP.

Date: 12/17/2008 **Report #:** 2 **Daily Cost:** $5,298 **Cum. Cost:** $12,096 **TMD(ft):**

Other Reports for this day: None

Activities

SAFETY MTG: JSP MEETING, NU BOP'S

BLED OFF TBG, SIDE STRING & CSG. RD P/U. X-O TO 2-1/16" TBG EQUIP, ND WELL HEAD. NU BOP, RU WORK FLOOR. PU ON 2-1/16" TBG, LD HGR, POOH W/ SIDE STRING DETAIL. X-O TO 2-7/8" TBG EQUIP. ND BOP, PULL ON 2-7/8" TBG, STARTED MOVING @ 87000#. LD SPLIT HGR, START WORKING ON TBG TO STING OUT OF PKR @ 3000# OVER TO 10000# OVER W/ NO SUCCESS, TRY FM 5000# UNDER TO 15000# OVER - NO LUCK. BEAT DN ON TBG, TRY TO TURN AGAIN W/ NO SUCCESS. STRIP BOP, RU WORK FLOOR, PREP TO SWIVEL IN AM.

SDFN

Date: 12/18/2008 **Report #:** 3 **Daily Cost:** $11,215 **Cum. Cost:** $23,311 **TMD(ft):**

Other Reports for this day: None

Activities

SAFETY MTG: JSP MTG, RU PWR SWIVEL

TBG ON VACUUM, SICP 75 PSI. BLED WELL OFF, RU PWR SWIVEL, WORK TBG TO RIGHT FM 5000 PSI UNDER STRING WT TO 20000 PSI OVER STRING WT. HEAT ON TBG, PUMP 15 BBL DN TBG, RD PWR SWIVEL, PULL 15000 PSI OVER STRING WT TO 78000#. BAKER PACKER WON'T COME FREE. RU OWP WIRELINE TO CUT TUBING. RIH W/ CHEM CUTTER AND CUT TBG W/ 10' OF TBG IN TOP. RD OWP, PU ON TBG STRING, W/ 63000#. POOH W/ 60 JTS 2-7/8" TBG, TALLY OUT OF HOLE. EOT @ 7700'.

SDFN

Date: 12/19/2008 **Report #:** 4 **Daily Cost:** $5,122 **Cum. Cost:** $28,433 **TMD(ft):**

Other Reports for this day: None

Activities

SAFETY MTG: JSP, POOH W/ TUBING

PUMP 75 BBL DN TBG, BLED OFF CSG. POOH W/ 60 JTS TBG. SHUT DN FOR RIG REPAIR. CONT POOH W/ 304 JTS 2-7/8" TBG, SN, 1 20' CUT TBG JT. TALLIED TBG WHILE POOH. FLUSH TBG 2 TIMES W/ 140 BBL WTR. MU & RIH W/ SHOE, OUSIDE CUTTING TOOL, 8' JT 5-5/8" WASH OVER PIPE, 3 JTS 5-5/8" WASH OVER PIPE, TOP SUB, X-O, 1 JT 2-7/8" 8RD EUE TBG. EOT @ 130'. RU HYDROTEST FOR AM.

SDFN

EVENT: RECOMPLETION (Cont.)

Date: 12/20/2008	Report #: 5	Daily Cost: $9,771	Cum. Cost: $38,204	TMD(ft):

Other Reports for this day: None

Activities

SAFETY MTG: JSP, HYDROTESTING TBG

SITP 75 PSI, SICP 75 PSI. BLED WELL OFF. RIH W/ TBG & HYDROTEST ON WAY IN. TESTED TOTAL OF 305 JTS, ALL TESTED GOOD. PULL 6 JTS, EOT @ 9468' W/ 299 JTS STILL IN HOLE. RD HYDROTEST UNIT.

SDFN

Date: 12/21/2008	Report #: 6	Daily Cost: $4,629	Cum. Cost: $42,833	TMD(ft):

Other Reports for this day: None

Activities

SAFETY MTG: RU PWR SWIVEL, WALK AROUND RIG INSPECTION

SITP 20 PSI, SICP 100 PSI. BLED OFF WELL, RIH W/ 6 JTS TBG, RU PWR SWIVEL, SWIVEL DN 2 JTS, TAG @ 9697', 10' DN ON JT # 306. PULL UP 31', PULL OVER ON COLLAR @ 9666', PULL 3000# OVER STRING WT, ATEMPT TO CUT TBG, TOOL SLIPPED OFF COLLAR, RUN BACK IN, PULL 5000# OVER STRING WT ON COLLAR, CUT TBG OFF. RD PWR SWIVEL. LD 2 JTS TBG. POOH W/ 110 JTS TBG, FOUND REMAINDER FULL OF OIL. WILL SWAB ON MONDAY. EOT @ 2722', 84 JTS IN HOLE.

SDFWE

Date: 12/23/2008	Report #: 7	Daily Cost: $8,111	Cum. Cost: $50,943	TMD(ft):

Other Reports for this day: None

Activities

SAFETY MTG: PU BHA, WALK AROUND RIG INSPECTION

PUMP 50 BBL DN CSG W/ HOT OILER. RU SWAB EQUIP, SWAB OIL OUT OF TBG IN 2 RUNS. RD SWAB EQUIP. CONT POOH W/ 84 JTS 2-7/8" TBG, 305 TOTAL, X-O, TOP SUB. LD 1 JT 5-5/8" WASH OVER PIPE. PULL & LD 1 10' X 2-7/8" JT TBG, GAS NIPPLE, PERF SUB, 2 JTS 2-7/8" TBG, 1-4' CUT JT TBG, TBG CUTTER & GUIDE SHOE. X-O TO EQUIP FOR 8-1/8" WASH OVER PIPE. PU & RIH W/ SHOE, 2 JTS 8-1/8" WASH OVER PIPE, TOP SUB, DOUBLE PIN, JUNK BASKET, X-O, BUMPER SUB, JARS, 4-3/4" DC, X-O, 66 JTS 2-7/8" 8RD TBG. EOT @ 2250'

SDFN

Date: 12/24/2008	Report #: 8	Daily Cost: $17,383	Cum. Cost: $68,326	TMD(ft):

Other Reports for this day: None

Activities

SAFETY MTG: TIH W/ TBG, WALK AROUND RIG INPSECTION

SITP 75 PSI, SICP 50 PSI. BLED WELL OFF, CONT TIH W/ 178 JTS 2-7/8" TBG. SHUT RIG DN FOR 2 HRS, REPAIRS. RIH W/ TBG, TAG PKR @ 9722' W/ 10' ON JT 304. FILL TBG W/ 45 BBL WTR, MILL OVER PKR 3' IN 4-1/2 HR. LAST 1/2 HR CATCH CIRD, LOST 675 BBL WTR. PULL UP & LD 2 JTS TBG. EOT @ 9639', 301 JTS IN HOLE. SHUT IN & DRAIN LINES.

SDFWE

Date: 12/30/2008	Report #: 9	Daily Cost: $8,292	Cum. Cost: $76,618	TMD(ft):

Other Reports for this day: None

Activities

SAFETY MTG: RD PWR SWIVEL, WALK AROUND RIG INSPECTION

SITP 180 PSI, SICP 90 PSI. BLED OFF LINE, RU PUMP LINES & PWR SWIVEL. PUMP DN TBG @ 2 BPM, TAG PKR @ 9725'. MILL DN TO 9723'. PKR MOVING UP AND DN. UNABLE TO PU ON PKR. RD SWIVEL, POOH W/ 184 JTS TBG.

SDFN

EVENT: RECOMPLETION (Cont.)

Date:	12/31/2008	Report #:	10	Daily Cost:	$10,715	Cum. Cost:	$87,333	TMD(ft):

Other Reports for this day: None

Activities

SAFETY MTG: TOOH W/ TOOLS, WALK AROUND RIG INSPECTION

SITP 80 PSI, SICP 80 PSI. BLED WELL OFF, FINISH POOH W/ 118 JTS 2-7/8" TBG, DRILL COLLARS, BUMPER SUB, 2 JTS WASH PIPE & SHOE. MU & TIH W/ OVERSHOT, JARS, BUMPER SUB, 6 4-3/4" DRILL COLLARS, INTENSIFIER, X-O & 2-7/8" TBG.

SDFN

Date:	1/1/2009	Report #:	11	Daily Cost:	$14,785	Cum. Cost:	$102,118	TMD(ft):

Other Reports for this day: None

Activities

SAFETY MTG: JARING ON TBG. SITP - SLIGHT BLOW, SICP 0. TIH W/ 63 JTS 2-7/8" 8RD EUE TBG. TAG & LATCH ONTO @ 9,740'. JAR ON 3 TIMES. PKR CAME LOOSE. TOOH W/ 244 JTS TBG, TBG FULL OF OIL. RU SWAB LUBE & SWAB TBG DRY. RD SWAB LUBE. FINISH TOOH W/ 305 TOTAL JTS 2-7/8" TBG. LD XO, INTENSIFIER, 6 EA 4-3/4" DC, JARS, BUMPER SUB, OVERSHOT, 1 20' 2-7/8" TBG, BLANK NIPPLE, XO 2-7/8" PERF SUB, 7-5/8" PKR. TIE RIG BACK DOUBLE FAST. MU & TIH W/ 4-1/2" ROCKY TRICONE BIT, 2-3/8" X 2-7/8" 8RD XO, 1 JT 2-7/8" 8RD TBG, SN, 50 JTS 2-7/8" 8RD EUE TBG. SWI. EOT @ 1,062'.

Date:	1/6/2009	Report #:	12	Daily Cost:	$5,588	Cum. Cost:	$107,705	TMD(ft):

Other Reports for this day: None

Activities

SAFETY MTG: TIH W/ TBG, WALK AROUND RIG INSPECTION

SITP - 120 PSI, SICP 150 PSI. BLED WELL OFF. CONT TIH W/ 254 JTS 2-7/8" JTS TBG. PU 45 JTS 2-7/8" TBG. TAG FILL @ 10621', 350 JTS IN. LD 37 JTS TBG, TOOH W/ 128 JTS TBG. EOT @ 5662', 182 JTS IN WELL.

SDFN

Date:	1/7/2009	Report #:	13	Daily Cost:	$7,981	Cum. Cost:	$115,686	TMD(ft):

Other Reports for this day: None

Activities

SAFETY MTG: RU WIRELINE, WALK AROUND RIG INSPECTION

SITP - 50 PSI, SICP - 80 PSI. BLED OFF WELL. CONT TOOH W/ 182 JTS 2-7/8" TBG, 312 TOTAL JTS OUT. RU OWP WIRELINE. RIH W/ 5-1/2" CIBP & SET @ 10090'. POOH W/ WIRELINE. RIH W/ BAILER DUMP & POUR 1 SXS CMT ON TOP OF CIBP. POOH W/ WIRELINE. PUMP 440 BBL WTR DN CSG. PUMPED 25 BBL DIESEL DN HOLE.

SDFN

Date:	1/8/2009	Report #:	14	Daily Cost:	$26,031	Cum. Cost:	$141,717	TMD(ft):

Other Reports for this day: PERFORATE

Activities

Safety Mtg.Test Casing,Walk Around Rig Inspection.

Bleed well,RU Halliburton.fill csg.w/51.5 bbls.p.t.csg to 4500 psi. Flange on top Lkg.Bleed off tighten flange. P.T. to 5000 psi & held f/15 min.Bleed well RD Halliburton RU OWP WL RIH w/4" gun,1 SPF, perf.f/9206-9646' ,made 2 runs, R.D. OWP Make up and trip in hole w/ 9 5/8" baker retrievamatic paker, 2jts. 2 7/8 Tbg.,S.N.,188 jts. 27/8" tbg. swi,eot is @5973' , 190 jts. still in well
PERFORMANCE HIGHLIGHTS:PRESSURE TO 4977 @9:30 A.M.@5 MIN. 4943 @10 MIN. & 4917 @ 15MIN.CSG. TEST GOOD.
sdfn

Date:	1/9/2009	Report #:	15	Daily Cost:	$21,308	Cum. Cost:	$163,025	TMD(ft):

Other Reports for this day: None

Activities

SAFETY MTG. TEST CSG. WALK AROUND RIG INSPECTION. SITP FLOW SICP @ 0. TIH W/97 JTS. 2-7/8" TBG. 287 TTL JTS. IFL SURFACE DOWN TO 1700'. TBG IS STICKY. 2ND RUN USE SAND CUP DOWN TO 2900'. 3RD, 4TH,5TH, RUN USE NEW SAND CUPS. PULL DRY. CUPS WEARING OUT. 6TH,7TH RUN USE 1 WIRE CUP,REALLY STICKY PULLING 6000' FLUID. 8TH RUN TRY 2 SAND

EVENT: RECOMPLETION (Cont.)

CUPS,PULLED DRY WORE CUPS OUT. 9TH RUN FLUID LEVEL @ 7,000 FT. PULL FROM 8,000 FT. SAND LINE GOT STUCK. PULL SAND LINE OUT OF ROPE SOCKET. POOH W/SAND LINE RD LUBE. TIE RIG BACK SINGLE FAST. UNSET 9-5/8' PACKER TOOH W/62 JTS 2-7/8' TBG. SHUT WELL IN. EOT @ 6,933 FT. W/221 JTS. IN WELL.

Date: 1/10/2009	Report #: 16	Daily Cost: $5,535	Cum. Cost: $168,560	TMD(ft):

Other Reports for this day: None

Activities

SAFETY MTG: TOOH W/ TBG. SICP 0 PSI, SITP 0 PSI. TOOH W/ 221 JTS 2-7/8" 8RD EUE 6.5# N80 TBG. SWAB MANDRELL, STUCK IN SN, LD SINKER BARS, POOH W/ 9-5/8" PKR, CHANGE W/ NEW 9-5/8" RETRIEVAMATIC PKR. TIH W/ 2 JTS TBG, NEW SN, 285 JTS 2-7/8" TBG-287 TOTAL JTS. SET PKR @ 9,003' W/ 20,000# COMPRESSION. FILL CSG W/ 45 BPW, TEST TO 1000# FOR 5 MIN, HELD GOOD. REHEAD SANDLINE. CLEANUP RIG.

Date: 1/11/2009	Report #: 17	Daily Cost: $48,631	Cum. Cost: $217,191	TMD(ft):

Other Reports for this day: None

Activities

SAFETY MTG: ACID JOB. SITP 0 PSI. HALLIBURTON MIRU, HOLD 1000# ON CSG. TREATMENT CONSISTED OF 4,472 GALS FRESH WATER; 3081 GAL WAS PUMPED DURING ACID STAGE. THE FIRST 300 GALS WAS FRESH WATER; THE NEXT 1700 GALS WAS APPROX. HCL ACID 25%; THE LAST 100 GALS WAS 15% HCL ACID. THERE WERE PROBLEMS WITH GETTING RELIABLE ACID STRAPS TO GAUGE IF THE MIXTURE WAS BEING CUT W/ WATER CORRECTLY; 43 PERFPAC BALLS WERE DROPPED. THE AVERAGE BH TREATING RATE WAS 3.4 BPM AND AVERAGE WH PRESSURE WAS 4648 PSI; MAX TREATING PRESSURE 6405 PSI. MAX SLURRY RATE 7.0 BPM, AVG SLURRY RATE 4.9 BPM. THE TOTAL LIQUID TO RECOVER IS 7,653 GALS. ISIP 3164 TREATING PRESSURE PSI, SI PRESSURE @ 5 MIN 2195 PSI, SI PRESSURE @ 10 MIN 1229 PSI. WELL BLED OFF. RU SWAB EQUIP. TBG FLOWING SLOWLY. 1ST RUN DOWN TO 1,700'; 6 TOTAL RUNS, ON 6TH RUN GOT TO 6,600'. TBG STARTED FLOWING. POOH W/ SANDLINE, RETRIEVED 50 TOTAL BBLS. FLOWED BACK 15 BBLS OIL, 18 BBLS WATER, 83 TOTAL BBLS. MADE 6 RUNS, FINAL FL 4,600'. SWIFN. DRAIN LINES. SDFN.

Date: 1/13/2009	Report #: 18	Daily Cost: $6,658	Cum. Cost: $223,849	TMD(ft):

Other Reports for this day: None

Activities

SAFETY MEETING: FLOW TESTING WELL. SITP 625 PSI, SICP 0 PSI. OPEN @ 7:45 AM, PSI FELL TO 50 PSI BY 8:15 AM. OIL CUT 100%. FLOWED WELL UNTIL 8:45 AM. OIL CUT 100%, FLOWED BACK 75 BO. UNSET PKR, BLOW DOWN TBG & LET FLUID EQUALIZE FOR 1/2 HR. PUMP 30 BPW DOWN TBG. TOOH W/ 285 JTS 2-7/8" 8RD EUE 6.5# N80 TBG. LD 9-5/8" RETRIEVAMATIC PKR. 311 TOTAL JTS OUT. TIH W/ 10 STANDS. LD 20 JTS TBG. MU & TIH W/ 3-1/2" HD LOCKIT PLUG, 2 JTS 3-1/2" TBG W/ SLOTS IN TOP, 2-7/8" 8RD X 3-1/2" 8RD X 10, NEW 2-7/8" SN, 1 JT 2-7/8" 8RD EUE 6.5# N80 TBG, 9-5/8" BAKER TAC, 230 JTS 2-7/8" 8RD EUE 6.5# N80 TBG. SWI. EOT @ 7,307' W/ 231 JTS IN WELL.

Date: 1/14/2009	Report #: 19	Daily Cost: $7,250	Cum. Cost: $231,099	TMD(ft):

Other Reports for this day: None

Activities

SAFETY MTG: LANDING TBG, WALK AROUND RIG INSPECTION

SITP - 175 PSI, SICP 150 PSI. BLED WELL OFF. CONT TIH W/ 60 JTS 2-7/8" TBG, 291 TOTAL IN WELL. ND TBG EQUIP, RD WORK FLOOR, ND BOP, TRY TO SET 9-5/8" TAC W/ NO SUCCESS. NU BOP, RU WORK FLOOR & TBG EQUIP. START POOH W/ 2-7/8" TBG. WELL STARTED FLOWING. RU HOT OILER & PUMP 120 BBL DN TBG & UP CSG. PUMP 150 BBL WTR DN TBG & UP CSG, 270 BBL TOTAL. CSG STILL FLOWING. LET CSG BLEED OFF. START POOH W/ TBG, 60 JTS TOTAL.

SDFN

Date: 1/15/2009	Report #: 20	Daily Cost: $4,260	Cum. Cost: $235,359	TMD(ft):

Other Reports for this day: None

Activities

SAFETY MTG: TIH W/ TUBING, WALK AROUND RIG INSPECTION

SITP - VACUUM, SICP - 150 PSI. BLED OFF WELL. CONT TOOH W/ 230 JTS 2-7/8" TBG, 290 JTS TOTAL. LD 8-5/8" TAC, MU & TIH W/ 9-5/8" TAC, 290 JTS 2-7/8" TBG. SHUT WELL IN. EOT @ 9196' W/ 291 JTS IN WELL. PREP TO SET TAC IN AM.

SDFN

EVENT: RECOMPLETION (Cont.)

Date: 1/16/2009	Report #: 21	Daily Cost: $7,087	Cum. Cost: $242,445	TMD(ft):

Other Reports for this day: None

Activities

SAFETY MTG: SET TAC, WALK AROUND RIG INSPECTION

SITP - 195 PSI, SICP SLIGHT BLOW. BLED WELL OFF, KILL TBG W/ 40 BBL WTR. CSG STARTED FLOWING. LET CSG BLEED OFF. ND BOP, TRY TO SET TAC @ 9111' W/ NO SUCCESS. NU BOP, RU WORK FLOOR. PUMP DN TBG & UP CSG W/ 209 BBL WTR. BLED CSG OFF, TRY TO SET TAC W/ NO LUCK. PULL UP 2 JTS, TRY TO SET TAC W/ NO SUCCESS. PULL UP 2 JTS & TRY TO SET TAC AGAIN W/ NO LUCK. PULL UP TO 47# CSG & TRY TO SET TAC @ 8413' W/ NO
LUCK. PULL UP 2 JTS & TRY TO SET AGAIN W/ NO SUCCESS. POOH W/ TBG DETAIL & TAC, LD 9-5/8" TAC. TIH W/ 21 JTS, EOT @ 751'. DRAIN LINES. TRY TO SET TAC OUT OF WELL, WORKS OK AND IN GOOD CONDITION.

SDFN

Date: 1/17/2009	Report #: 22	Daily Cost: $5,785	Cum. Cost: $248,230	TMD(ft):

Other Reports for this day: None

Activities

JSP MEETING
WALK AROUND RIG INSPECTION
SITP @ 95#
SICP @ 0#
BLEED OFF TBG. TOOH W/ 20 JTS 2-7/8" TBG. MU 9-5/8" TAC, TEST TAC TO MAKE SURE IT WORKS. TIH W/ 290 JTS 2-7/8", SET TAC @ 9,107', SET GOOD. RD FLOOR, ND BOP, PU ON TBG TO TAKE OUT TBG SUB & TAC SLIPPED OR SHEARED. TRY TO RESET TAC AGAIN W/ NO LUCK. NU BOP & RIG FLOOR. POOH W/ 60 JTS. TBG FULL OF OIL, HAD HOT OILER PUMP 45 BBLS FORM WATER DOWN TBG. FINISH POOH W/ 274 JTS.
SDFN W/ 17 JTS LEFT IN WELL, EOT @ 605'

Date: 1/18/2009	Report #: 23	Daily Cost: $5,198	Cum. Cost: $253,428	TMD(ft):

Other Reports for this day: None

Activities

JSP MEETING
WALK AROUND RIG INSPECTION
SITP @ 95#
SICP @ SLIGHT BLOW
BLEED TBG OFF. POOH W/17 JTS 2-7/8" TBG. LD 9-5/8" TAC (SHEARED) 1 JT 2-7/8" TBG, SN, 2 JTS 3-1/2" HD LOCKIT & BULL PLUG. RD RIG FLOOR. CHANGE 11" BOP TO 7" BOP. RU FLOOR. PU, MU 5-1/2" TAC, BLANK NIPPLE, 1 JTS 2-7/8" TBG, 1 - 10' PERF 2-7/8" SUB, NEW SN & TIH W/ 311 JTS 2-7/8" 8RD N-80 TBG. (21 OFF TRAILER, 290 OUT OF DERRICK.) SET 5-1/2" TAC @ 9799'. RD FLOOR, ND BOP, LAND TBG HANGER W/ 20,000# TENSION. X-O TBG EQUIPMENT TO RUN 2-1/16" TBG. TIH W/ 20 JTS OF 2-1/16" TBG.EOT @ 658'
SDFN

Date: 1/20/2009	Report #: 24	Daily Cost: $12,861	Cum. Cost: $266,289	TMD(ft):

Other Reports for this day: None

Activities

SAFETY MTG: TIH W/ SIDE STRING, WALK AROUND RIG INSPECTION

SITP - SLIGHT BLOW, SICP - 100 PSI. BLED OFF WELL, CONT TIH W/ 202 JTS 2-1/16" TBG FOR 222 TOTAL JTS IN WELL. RD WORK FLOOR & TBG EQUIP. ND BOP, LAND TBG. EOT @ 7311'. MU WELL HEAD, X-O TO ROD EQUIP. FLUSH TBG W/ 50 BBL WTR. TIH W/ RODS AND NEW ROD PUMP. GOT TO 7/8" RODS, WILL CONT IN AM.

SDFN

Date: 1/21/2009	Report #: 25	Daily Cost: $5,089	Cum. Cost: $271,378	TMD(ft):

Other Reports for this day: None

Activities

SAFETY MTG: HANG HORSEHEAD. SITP 0 PSI. TIH W/ 106 1" SLICK RODS. RU PUMPING UNIT. PU 1-1/2" X 36' NEW POLISH ROD

EVENT: RECOMPLETION (Cont.)

W/ DELTA SPOOL. ROTATOR GOOD, SEAT PUMP. FILL TBG W/ 5 BPW, STROKE TEST TO 1000#. GOOD TEST. HANG HORSEHEAD & POLISH ROD. PUMPING UNIT WILL NOT TURN OVER, WAIT FOR ELECTRICIAN. RD NABORS 1406 RIG. ROAD RIG TO LORANGER 2-24A2.

TUBING DETAIL:

27.00	KB
3.58	TBG STRETCH FOR 20,000# TENSION
1.05	TBG HANGER 3-1/2" 8RD X 3-1/2" 8RD
.46	3-1/2" 8RD X 2-7/8" 8RD X 10
9,721.67	309 JTS 2-7/8" 8RD EUE 6.5# N80 TBG
1.10	NEW 2-7/8" SEAT NIPPLE
10.18	10' PERFORATED TBG SUB 2-7/8" 8RD EUE
31.80	1 JT 2-7/8" 8RD EUE 6.5# N80 TBG
.99	2-7/8" 8RD BLANK NIPPLE
2.97	5-1/2" TAC W/ CARBIDE SLIPS
9800.80'	EOT

SIDESTRING:

27.00	KB
1.04	TBG HANGER 2-1/16" 10RD TOP & BOTTOM
1.53	XO 2-1/16" 10RD PXP
7.88	PUP JT 2-1/16" N80 10RD 3.25#
7,274.13	222 JTS 2-1/16" 10RD 3.25# N80 TBG
7311.58	EOT

ROD DETAIL:

1 - 1-1/2" POLISH ROD (NEW) W/ DELTA SPOOL & ROTATOR
108 - 1" X 25' N-97 SUCKER ROD YR '91
114 - 7/8" X 25' N-97 SUCKER ROD YR '91
34 - 3/4" X 25' N-97 SUCKER ROD YR '07
134 - 3/4 X 25' N-97 SUCKER ROD YR '91
1" GUIDED N-97 STABILIZER SUB 3'
1 - ROD PUMP CDI RHBC MG III 2-1/2 X 1-3/4 X 28' W/ 21' X 1-1/4" DIP TUBE WITH SCREEN

FORM 9

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

5. LEASE DESIGNATION AND SERIAL NUMBER: FEE

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

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

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

8. WELL NAME and NUMBER: BAR F 2-5B1

2. NAME OF OPERATOR: Devon Energy Production Company, LP

9. API NUMBER: 4301331286

3. ADDRESS OF OPERATOR: P.O. Box 290 CITY Neola STATE UT ZIP 84053

PHONE NUMBER: (435) 353-4121

10. FIELD AND POOL, OR WILDCAT: Bluebell, Wasatch

4. LOCATION OF WELL

FOOTAGES AT SURFACE: ~~600~~ 660' FSL 1543' FEL

COUNTY: Duchesne

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 5 2S 1W 6

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
11/11/2009	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☑ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

Devon intends on removing CIBP and commingling the Lower Green River and Wasatch formations.

Drill out CIBP @ 10,090'. Well will be returned to production from Lower Green River perforations 9,206 - 9,646' and Wasatch perforations 10,171 - 13,180'.

COPY SENT TO OPERATOR
Date: 12.3.2009
Initials: KS

NAME (PLEASE PRINT) George Gurr TITLE Production Foreman

SIGNATURE DATE 11/11/2009

(This space for State use only) APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 11/24/09
BY: D. K. Mc

RECEIVED
NOV 16 2009
DIV. OF OIL, GAS & MINING

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

FORM 9

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

5. LEASE DESIGNATION AND SERIAL NUMBER: FEE

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

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

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

8. WELL NAME and NUMBER: BAR F 2-5B1

2. NAME OF OPERATOR: Devon Energy Production Company, LP

9. API NUMBER: 4301331286

3. ADDRESS OF OPERATOR: P.O. BOX 290 CITY Neola STATE UT ZIP 84053

PHONE NUMBER: (435) 353-4121

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

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 660' FSL 1543' FEL

COUNTY: Duchesne

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 5 2S 1W 6

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☑ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
Date of work completion: 12/28/2009	☑ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER: _____
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

Subsequent report for Notice of Intent dated 11/11/2009 to drill out CIBP @ 10,090' & commingle Lower Green River & Wasatch perforations.

Drill out CIBP @ 10,090'. Tag fill @ 12,874'.

Set pkr @ 10,092'. Acidize Wasatch perforations 10,171 - 12,874' w/ 4000 gals 15% HCL w/ additives. Swat test. Release & LD pkr set @ 10,092'.

Returned well to production commingling Lower Green River perforations 9,206 - 9,646' & Wasatch perforations 10,171 - 12,874'.

RECEIVED
JAN 19 2010
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) George Gurr

TITLE Production Foreman

SIGNATURE

DATE 1/14/2010

(This space for State use only)

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):	**TO:** (New Operator):
DEVON ENERGY PRODUCTION COMPANY L.P. N1275	LINN OPERATING INC N4115
333 WEST SHERIDAN AVENUE	1999 BROADWAY STE 3700
OKLAHOMA CITY OK 73102-5015	DENVER CO 80202
	303-999-4275

CA No. **Unit:** N/A

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
See Attached List								

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/16/2014
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/16/2014
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 10/8/2014

4a. Is the new operator registered in the State of Utah: _____ Business Number: 9031632-0143

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

5b. Inspections of LA PA state/fee well sites complete on: N/A

5c. Reports current for Production/Disposition & Sundries on: 10/8/2014

6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM NOT YET BIA NOT YET
7. **Federal and Indian Units:**
   The BLM or BIA has approved the successor of unit operator for wells listed on: N/A
8. **Federal and Indian Communization Agreements ("CA"):**
   The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
9. **Underground Injection Control ("UIC")** 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:

1. Changes entered in the **Oil and Gas Database on:** 10/8/2014
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 10/8/2014
3. Bond information entered in RBDMS on: 10/8/2014
4. Fee/State wells attached to bond in RBDMS on: 10/8/2014
5. Injection Projects to new operator in RBDMS on: N/A
6. Receipt of Acceptance of Drilling Procedures for APD/New on: 10/8/2014
7. Surface Agreement Sundry from **NEW** operator on Fee Surface wells received on: 9/16/2014

BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: NMB000501
2. Indian well(s) covered by Bond Number: NMB000501

3a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number LPM9149893

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

LEASE INTEREST OWNER NOTIFICATION:

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

FORM 9

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NUMBER: See Attached Well List

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER See Attached Well List

8. WELL NAME and NUMBER: See Attached Well List

2. NAME OF OPERATOR: LINN OPERATING, INC N4115

9. API NUMBER:

3. ADDRESS OF OPERATOR: 1999 Broadway, Suite 3700 CITY Denver STATE CO ZIP 80202

PHONE NUMBER: (303) 999-4275

10. FIELD AND POOL, OR WILDCAT: Bluebell/Altamont

4. LOCATION OF WELL

FOOTAGES AT SURFACE:

COUNTY: Duchsene/Uintah

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

STATE: UTAH

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

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

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

RECEIVED
SEP 16 2014
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Russell des Cognets II TITLE Asset Manager

SIGNATURE R des Cognets DATE 9/8/14

(This space for State use only) APPROVED

OCT 08 2014

DIV. OIL GAS & MINING
BY: Rachel Medina

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

Devon Energy Production Company, LP
Exisiting 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
MCELPRANG 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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FORM 9

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

5. LEASE DESIGNATION AND SERIAL NUMBER: See Attached Well List

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

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

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER See Attached Well List

8. WELL NAME and NUMBER: See Attached Well List

2. NAME OF OPERATOR: LINN OPERATING, INC

9. API NUMBER:

3. ADDRESS OF OPERATOR: 1999 Broadway, Suite 3700 CITY Denver STATE CO ZIP 80202

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

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

Effective 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) Russell des Cognets II TITLE Asset Manager

SIGNATURE DATE 9/~~24~~ 08/14

(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

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:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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: 1999 Broadway, Ste #3700 CITY Denver STATE CO ZIP 80202 PHONE NUMBER: (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		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: Excluded wells from Change of Operator
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

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 amd 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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Div. of Oil, Gas & Mining

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

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: FEE

SUNDRY NOTICES AND REPORTS ON WELLS

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:
BAR-F 2-5B1

2. NAME OF OPERATOR:
LINN OPERATING, INC.

9. API NUMBER:
43013312860000

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:
0660 FSL 1543 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SWSE Section: 05 Township: 02.0S Range: 01.0W Meridian: U

COUNTY:
DUCHESNE

STATE:
UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 6/14/2016	✓ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

LINN Operating, Inc. requests permission to acidize existing perforations in the Wasatch and Lower Green River in two stages. Operations procedure and wellbore diagram are attached to this sundry for review.

Approved by the
June 09, 2016
Utah Division of
Oil, Gas and Mining

Date:

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andrea Gurr	435 722-1325	Regulatory Specialist 1

SIGNATURE	DATE
N/A	6/7/2016

RECEIVED: Jun. 07, 2016

LINN Energy

BAR F 2-5B1 REPAIR AND ACIDIZE EXISTING PERFS Date: 6/7/2016

WELL HEADER/GENERAL INFORMATION

Well Name	API #	KB	S CSG Shoe	Prod CSG Size	Prod TBG Size	PBTD	EST TOC F/CBL
BAR F 2-5B1	43013312860000	27	2,517'	9-5/8" 53.5#/47#/43.5# P-110 with 5.5" 23# P-110 LINER	2-7/8" 6.5# N-80	13,270	2,400'

NOTE: All depths in program from KB - see attachments for WB Diagram & perf details

SUMMARY OF PROCEDURE GOALS/JUSTIFICATIONS:

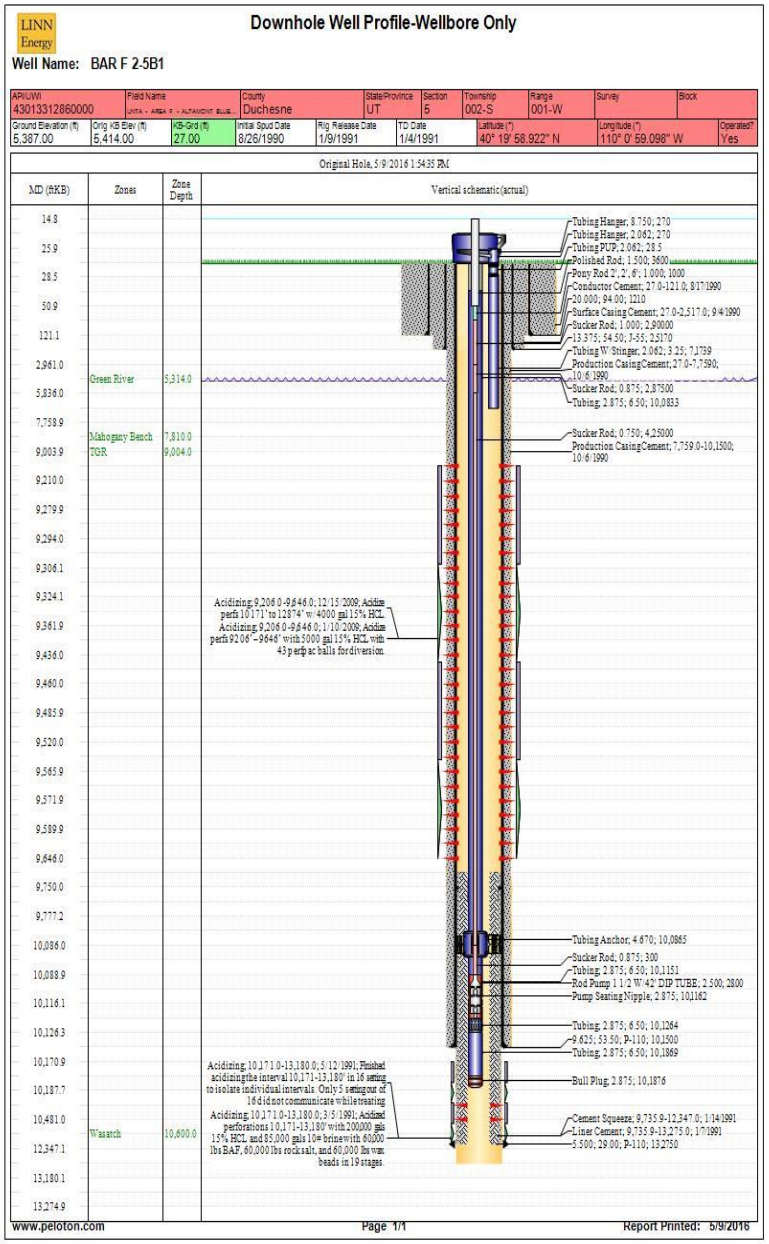
LINN Operating, Inc. requests permission to acidize existing perforations in the Wasatch and Lower Green River in two stages.

GENERAL PROPOSED PROCEDURE:

NOTE: MAKE SURE TO KEEP 1,000' KILL STRING IN HOLE EACH NIGHT WHEN OPERATIONS ARE SHUT DOWN.

1. MIRU workover rig and **an additional 35 JTS of 2-7/8" N80 tubing**
2. Soft seat pump and pressure test tubing to 7000 psi
3. POOH with rods/pump
4. NU BOP's test per SOPs
5. LD side string
6. Unset TAC RIH with 35 JTS of tubing to verify liner is clear to ~11,170'
7. POOH with tubing hot oiling to clean hole
8. MU 9-5/8" 53.5# Casing Scraper and run on tubing to Liner Top (9,735')
9. POOH with tubing and LD scraper
10. MU Packer on Tubing (For 5-1/2" 23# P-110 Casing)
11. Set Packer at 10,750' (~1,015' below liner top)
12. Acidize perfs from 10,750' to 13,180' through tubing
    a. 5,000 gal 15% HCL with non-emulsifier, inhibitor and iron control
13. Unset Packer and POOH with tubing
14. MU RBP on Tubing (For 5-1/2" 23# P-110)
15. Set RBP @ ~9,775' (In top of Liner)
16. POOH with tubing and MU 9-5/8" Packer on Tubing (For 9-5/8" 53.5# P-110 Casing)
17. RIH and set Packer at 9,100' (~100' above top perf)
18. Acidize perfs from 9,206' to 9,646' through tubing
    a. 5,000 gal 15% HCL with non-emulsifier, inhibitor and iron control
19. Release Packer, POOH with tubing and LD Packer
20. RIH with tubing and release RBP
21. POOH with tubing and LD RBP
22. RIH with tubing
    - Bull Plug + 2JTS + PERF SUB
    - Set PSN @ 10,116' (No Change to PSN)
23. RIH with Rods
24. RDMO and PWOP

WELLBORE FOR BAR F 2-5B1 REPAIR AND ACIDIZE EXISTING PERFS



RECEIVED: Jun. 07, 2016

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:
BAR-F 2-5B1

2. NAME OF OPERATOR:
LINN OPERATING, INC.

9. API NUMBER:
43013312860000

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:
0660 FSL 1543 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SWSE Section: 05 Township: 02.0S Range: 01.0W Meridian: U

COUNTY:
DUCHESNE

STATE:
UTAH

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

TYPE OF SUBMISSION

- ☐ NOTICE OF INTENT
  Approximate date work will start:
- ✓ SUBSEQUENT REPORT
  Date of Work Completion: 7/1/2016
- ☐ SPUD REPORT
  Date of Spud:
- ☐ DRILLING REPORT
  Report Date:

TYPE OF ACTION

✓ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

LINN Operating, Inc. respectfully reports the operations regarding approved sundry #72237 on the Bar F 2-5B1, acidize the existing perforations in the Wasatch (10,748'-13,180') and Lower Green River (9,206'-9,646')in two stages.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
July 13, 2016

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andrea Gurr	435 722-1325	Regulatory Specialist 1
SIGNATURE		**DATE**
N/A		7/13/2016

RECEIVED: Jul. 13, 2016

LINN Energy

Operations Summary

Well Name: BAR F 2-5B1

API/UWI	Surface Legal Location	County	State/Province
43013312860000	5-2-S 1-W-6	Duchesne	UT
Initial Spud Date	**Rig Release Date**	**KB-Ground Distance (ft)**	**Ground Elevation (ft)**
8/26/1990	1/9/1991	27.00	5,387.00

Job Category	Primary Job Type	Secondary Job Type	Start Date	End Date
Workover/Maint	Stimulation	Acid Treatment	6/22/2016	7/1/2016

6/22/2016 07:00 - 6/22/2016 17:00

Operations at Report Time	Operations Next Report Period
MIRU.	TOH & LD side string.

Operations Summary
Fish rods.

Com

SITP 0 psig. SICP 100 psig. Review JSA. MIRU SWS #2. RD ppg unit. TOH to rod part : Parted pin on 295th - 3/4" N-97 rod FS @ 7,385'. Fish rods & unseat pmp. Flshd tbg w/60 BW. Soft seat pmp & PT tbg to 5,000 psig, 10 min, gd tst. TOH w/rods & pmp. SWI & SDFN.

6/23/2016 07:00 - 6/23/2016 19:00

Operations at Report Time	Operations Next Report Period
NU 7" BOP.	TOH w/prod tbg.

Operations Summary
LD side string.

Com

SITP 85 psig. SICP 50 psig. Review JSA. ND WH. NU 7- 1-16" x5K BOP & X/O flange. TOH & LD 218 jts 2- 1/16" tbg. ND BOP & flange. NU 11- 1/16"x 5K BOP. Rlsd 5-1/2" TAC @ 10,083'. SWI & SDFN.

6/24/2016 07:00 - 6/24/2016 18:00

Operations at Report Time	Operations Next Report Period
TOH w/prod tbg.	TOH w/9-5/8" csg scraper.

Operations Summary
TIH w/9-5/8" csg scraper.

Com

SITP 70 psig. SICP 90 psig. PU & TOH w/35 jts 2-7/8" tbg. EOT @ 11,221'. TOH w/prod tbg & BHA. TIH w/9-5/8" csg scraper & tbg. Tg'd 5-1/2" liner top @ 9,735'. TOH w/50 jts tbg. EOT @ 6,845'. SWI @ SDFN.

6/27/2016 07:00 - 6/27/2016 17:00

Operations at Report Time	Operations Next Report Period
TOH w/9-5/8" csg scraper.	TIH w/5-1/2" RBP.

Operations Summary
Acidize btm zone.

Com

SITP 75 psig. SICP 100 psig. TOH w/223 jts tbg & 9-5/8" csg scraper. TIH w/5-1/2" PKR & tbg. Set PKR @ 10,743'. MIRU Western Chem. Treat perfs fr/10,748' - 13,180' w/5,000 gal 15% HCL acid & add. Max inj 4.5 BPM @ 3,000 psig. 3,780 gal acid in form press drpd to 0 psig, tbg on vac. Displace w/30 BW. Rlsd 5-1/2" PKR. TOH w/tbg & PKR. No visible damage to tbg or PKR. Poss comm between perfs during acid job. SWI & SDFN.

6/28/2016 07:00 - 6/28/2016 19:00

Operations at Report Time	Operations Next Report Period
TIH w/5-1/2" RBP.	Acidize top zone.

Operations Summary
Prep to acidize.

Com

SICP 60 psig. Review JSA. TIH w/5-1/2" RBP & 303 jts tbg. Set 5-1/2" RBP @ 9,775'. TOH w/tbg & Retr head. TIH w/9-5/8" PKR & tbg. Set PKR @ 9,665'. PT tbg, PKR & RBP to 2,500 psig w/30 BW, gd tst. Attd to rlse PKR w/no sucess. RU swab tls. Swab FL down to 3,500' & PKR relsd. TOH w/18 jts tbg. Set PKR @ 9,104'. SWI & SDFN.

6/29/2016 07:00 - 6/29/2016 18:00

Operations at Report Time	Operations Next Report Period
Acidize well.	TOH w/prod tbg.

Operations Summary
Acidize well. Retr tls.

Com

SITP 30 psig. SICP 0 psig. Review JSA. MIRU Western Chem. Treat perfs fr/9,206'- 9,646' w/5,000 gal 15% HCL & add. Flshd w/75 BW. Avg inj rate 4.5 BPM @ 1,200 psig. ISIP 0 psig. RDMO Western. Rlsd PKR @ 9,104'. TOH w/tbg & 9-5/8" PKR. TIH w/retr head & tbg. Relsd 5-1/2" RBP @ 9,775'. TOH w/tbg & RBP. SWI & SDFN.

6/30/2016 07:00 - 6/30/2016 16:00

Operations at Report Time	Operations Next Report Period
TIH w/tbg.	RWTP.

Operations Summary
TIH w/tbg & partial rods.

Com

SICP 25 psig. Review JSA. TIH w/prod tbg & Ld on well as follows: 322 jts 2-7/8" tbg, 5-1/2" B2 TAC, 1 jt tbg, SN, 10' perf sub,2 jts tbg & 2-7/8" BP. TAC @ 10,083' set w/22K ten, SN @ 10,115' & EOT @ 10,187'. ND 11" BOP. NU WH. Flshd tbg w/60 BW. Tst new pmp @ surf. TIH w/pmp & 2,700' of rods. PU PR. SWI & SDFN.

7/1/2016 07:00 - 7/1/2016 11:30

Operations at Report Time	Operations Next Report Period
RIH WITH RODS	PWOP

Operations Summary
RIH WITH ROD ASSEMBLY

Com

CONDUCT JSA AND SAFETY MEETING WITH SWS #2 AND OLD GLORY HOT OIL SERVICE.
6:00-7:00 TRAVEL TO LOCATION AND SAFETY MEETING.
7:00- L/D POLISH ROD, L/D 13- ¾" RODS, RIH W/RODS, SPACE OUT, FILL AND TEST TO 750 PSI W/RIG (30 BBLS TO FILL AND TEST), PUT GRASSHOPPER UNIT BACK TOGETHTER, HANG WELL OFF, TIGHTEN STUDS ON WELL HEAD (WAS LEAKING), RIG DOWN, CLEAN LOCATION, PREP TO MOVE, PWOP @ 11:30
NOTES:
0 GALLONS OF PROPANE USED BY OLD GLORY TRUCK #2
30 BBLS TO FILL AND TEST TBG
SITP 30 PSI SICP N/A

RECEIVED: Jul. 13, 2016