FILE NOTATIONS

Entered in NID File ..✓.....
Location Map Pinned .....
Card Indexed ..✓.....

Checked by Chief .....
Approval Letter .....
Disapproval Letter .....

COMPLETION DATA:

Date Well Completed 11-22-78

Location Inspected .....

Bond released
State or Fee Land .....

OW..... WW..... TA...✓..
GW..... OS..... PA...✓..

LOGS FILED

Driller's Log.....✓
Electric Logs (No.) NLR.
E..... I..... Dual I Lat..... GR-N..... Micro.....
BHC Sonic GR..... Lat..... MI-L..... Sonic.....
CBLog..... CCLog..... Others.....

Form OGC-1a

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

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

5. Lease Designation and Serial No.: ---

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

6. If Indian, Allottee or Tribe Name: ---

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

7. Unit Agreement Name: ---

b. Type of Well: Oil Well XX Gas Well ☐ Other Single Zone XX Multiple Zone ☐

8. Farm or Lease Name: Bar-B Trust

2. Name of Operator: Kenneth Luff, Inc.

9. Well No.: 1-28

3. Address of Operator: 1730 Colorado State Bank Bldg., Denver, Colorado 80202

10. Field and Pool, or Wildcat: Wildcat

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At surface: C SE/4 (1323' FSL & 1314' FEL) NE SE 1/4
At proposed prod. zone: Same

11. Sec., T., R., M., or Blk. and Survey or Area: Sec. 28, T9N, R7W

14. Distance in miles and direction from nearest town or post office*: 12 mi. S-SW of Promontory, Utah

12. County or Parrish: Box Elder
13. State: Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any): 3,960

16. No. of acres in lease: 2,991.61

17. No. of acres assigned to this well: 160

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.: N/A

19. Proposed depth: 5,500' Eocene

20. Rotary or cable tools: Rotary

21. Elevations (Show whether DF, RT, GR, etc.): 4,220' Grd. (Ungraded)

22. Approx. date work will start*: September 10, 1978

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
17 1/4"	13 3/8"	48#/foot	500'	To surface ok
8 3/4"	5 1/2"	14#/foot	TD	250 sx (minimum) ok

We propose to conduct operations by drilling 17 1/4" surface hole to ± 500' KB. Surface casing will be 13 3/8" OD which will be cemented to surface. An 8 3/4" hole will be drilled to TD. Shows for hydrocarbons will be monitored with a mud logging unit from ± 500' to TD. Any significant shows will be drill stem tested. Resistivity and porosity logs will be run from TD to base of surface pipe. If a well completion is attempted, 5 1/2" production casing will be run.

A diagram of our blowout preventer arrangement is attached.

Exception location is requested because of topographic considerations. Well location is near existing road in area of mud flats. Minimal surface disturbance will be required at proposed location. Kenneth Luff, Inc. is in control of all leases of mineral rights of all lands in Sections 27, 28, 33 and 34, T9N, R7W.

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

24.

Signed: Larry A. Carrell Title: Manager of Operations Date: July 28, 1978

(This space for Federal or State office use)

Permit No. ..... Approval Date .....

Approved by ..... Title ..... Date .....

Conditions of approval, if any:

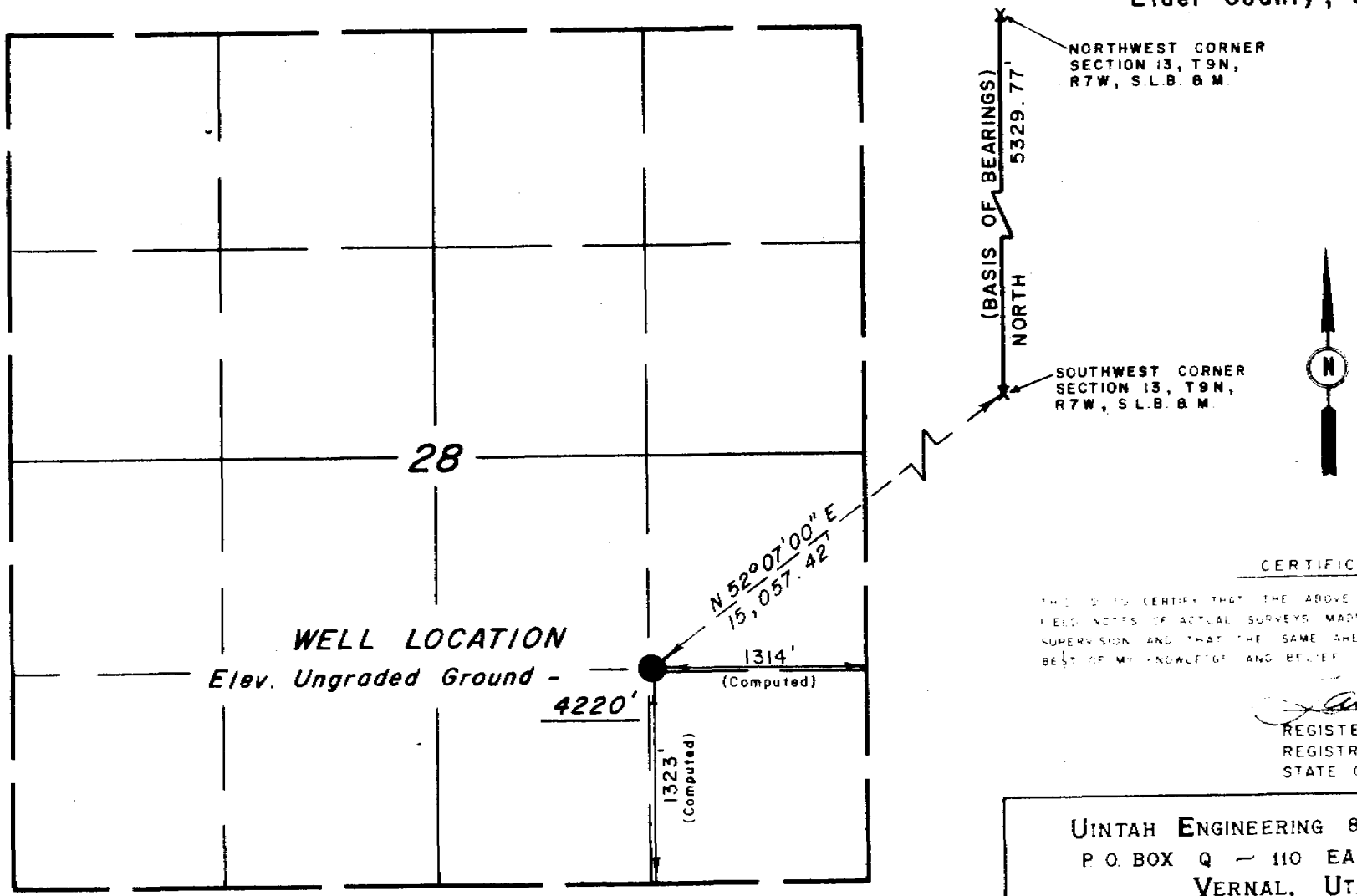
*See Instructions On Reverse Side

PROJECT

K.D. LUFF

Well location located as shown in the SE 1/4 Section 28, T9N, R7W, S.L.B. & M. Box Elder County, Utah.

T9N, R7W, S.L.B. & M.



X = Section Corners Located

CERTIFICATE

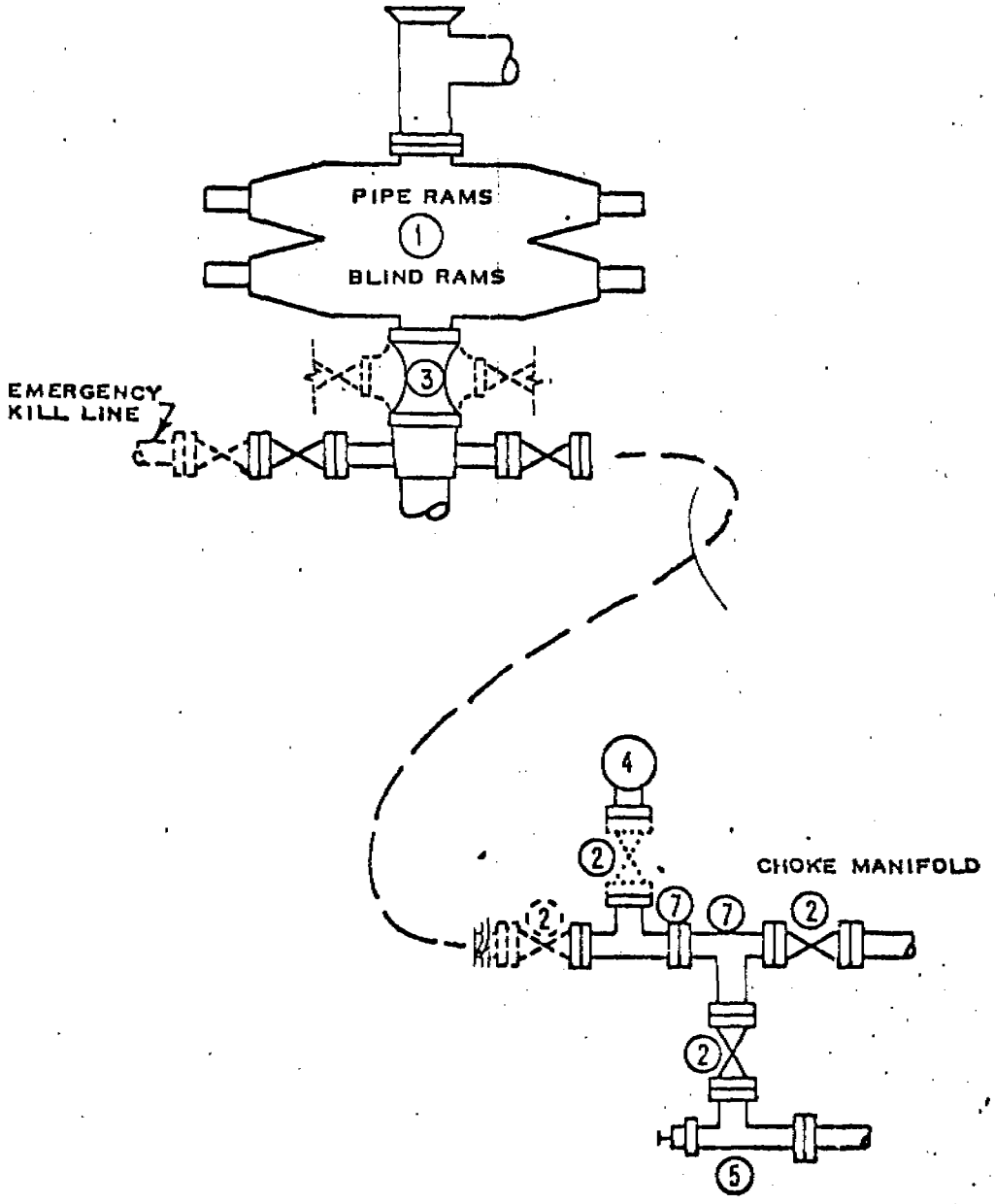
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION No 3137
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P.O. BOX Q – 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 4/17/78
PARTY RK JB DJ	REFERENCES G.L.O. Plat
WEATHER Cloudy, Windy, & Cool	FILE K.D. LUFF

DOUBLE PREVENTER



1. SERIES 900 RAM-TYPE BOP
2. 2" SERIES 900 VALVE
3. SERIES 900 DRILLING SPOOL
4. 2" MUD PRESSURE GAUGE
5. 2" SERIES 900 CHOKE
6. 2" SERIES 900 CHECK VALVE
7. 2" SERIES 900 STEEL TEE

NOTES:

1. 3000 PSI WP CLAMP HUBS MAY BE SUBSTITUTED FOR FLANGES
2. VALVES MAY BE EITHER HAND OR POWER OPERATED BUT, IF POWER OPERATED, THE VALVES FLANGED TO THE BOP RUN MUST BE CAPABLE OF BEING OPENED AND CLOSED MANUALLY OR CLOSE ON POWER FAILURE AND BE CAPABLE OF BEING OPENED MANUALLY

..... OPTIONAL EQUIPMENT

CHANDLER AND ASSOCIATES, INC.

RIG #1

3000 PSI WORKING PRESSURE BLOWOUT PREVENTER HOOK-UP

(SERIES 900 FLANGES OR BETTER)

REV. 11/75

FIGURE NO. 4

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

** FILE NOTATIONS **

Date: Aug. 4

Operator: Kenneth D. Luff

Well No: Bar-B Trust 1-28

Location: Sec. 28 T. 9N R. 7W County: Box Elder

File Prepared: ✓ *Entered on N.I.D.:* ✓

Card Indexed: ✓ *Completion Sheet:* ✓

✓ *API NUMBER:* 43-003-[illegible]

CHECKED BY:

Administrative Assistant _____

Remarks:

Petroleum Engineer Ok Pat

Remarks: Legit. Topo. to Stay out of Mud Flat. OK

Director _____

Remarks:

INCLUDE WITHIN APPROVAL LETTER:

OK *Bond Required:* ✓ *Survey Plat Required:* ☐

Order No. _____ ☐ *Surface Casing Change to* _____ ☐

Rule C-3(c), Topographic exception/company owns or controls acreage within a 660' radius of proposed site ✓

O.K. Rule C-3 ☐ *O.K. In* _____ *Unit* ☐

Other:

✓ *Letter Written/~~Approved~~*

SCOTT M. MATHESON
Governor

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

CLEON B. FEIGHT
Director

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS, AND MINING

1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

OIL, GAS, AND MINING BOARD

I. DANIEL STEWART
Chairman

CHARLES R. HENDERSON
JOHN L. BELL
THADIS W. BOX
C. RAY JUVELIN

August 24, 1978

Kenneth Luff, Inc.
1730 Colorado State Bank Bldg.
Denver, Colorado 80202

Re: Well No.:
Bar-B Trust
Sec. 28, T. 9 N, R. 7 W,
Box Elder, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure.

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

PATRICK L. DRISCOLL - Chief Petroleum Engineer
HOME: 582-7247
OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

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

The API number assigned to this well is:

Bar-B Trust: 43-003-30004

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT
Director

cc: U.S. Geological Survey

November 5, 1978

MEMO TO FILE

Re: KENNETH LUFF, INC.
Well No. 1-28 Bar-B Trust
Sec. 28, T. 9N, R. 7W
Box Elder County, Utah

The above well was spudded in on November 4, 1978 at 12:00 p.m. The drilling contractor is Chandler Drilling Company.

Patrick L. Driscoll

PATRICK L. DRISCOLL
CONSULTANT

PLD/lw
cc: State Industrial Commission

November 17, 1978

MEMO TO FILE

Re: KENNETH D. LUFF
Well No. Bar B-Trust 1-28
Sec. 8, T. 9N, R. 7W
Box Elder County, Utah

This well is presently at 3,100' and has not encountered any hydrocarbon shows. It currently has a fish in the hole consisting of D.C. and stabilizers.

The opening of the BOP is not sufficiently large enough to allow a fishing string to be introduced, so the operator has been given permission to take off the BOP in order to recover the fish. Further drilling was specifically prohibited after the fish is recovered until the BOP is reset and tested.

PATRICK L. DRISCOLL
CONSULTANT

PLD/lw

Novmeber 22, 1978

MEMO TO FILE

43-003-30049

Re: KENNETH D. LUFF
Well No. Bar-B Trust 1-28
Sec. 28, T. 9N, R. 7W
Box Elder County, Utah

On November 21, 1978 the following plugging program was given to Bob White, Consultant for the above mentioned well.

T.D. 4,540
Surface Casing 13 3/8" to 508 feet.

Fish lost in hole.

Top: 787'
Bottom: 1,297'

100 feet plug straddle at 4,385.
100 feet plug straddle at 4,150 to isolate brackish water encountered at 4,200'
100 feet plug straddle, 2,200' to seal off fish
100 ' plug at 508'
50' inside casing and 50' outside of casing.
10' at surface with a regulation dry-hole marker.

CLEON B. FEIGHT
DIRECTOR

CBF/lw

Form OGCC-1 b

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED NOV 29 1978 OIL & GAS MINING

1. OIL WELL ☐ GAS WELL ☐ OTHER Dry

2. NAME OF OPERATOR: Kenneth Luff, Inc.

3. ADDRESS OF OPERATOR: 1730 Colorado State Bank Bldg., Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: C SE/4 (1323' FSL & 1314' FEL)

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: ---

7. UNIT AGREEMENT NAME: ---

8. FARM OR LEASE NAME: Bar-B Trust

9. WELL NO.: 1-28

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 28, T9N, R7W

14. PERMIT NO.: 43-003-30004

15. ELEVATIONS (Show whether DF, RT, GR, etc.): GR 4220'; KB 4231'

12. COUNTY OR PARISH: Box Elder

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*	XXX	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			☐
(Other)			☐	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

Plugged well on November 22, 1978, per following detail:

4355-4455'	36 sx
4100-4200'	36 sx
2150-2250'	36 sx
440- 450'	55 sx
Surface	10 sx w/dry hole marker

Recieved verbal permission on November 21, 1978, at ±6 PM from Cleon Feight.

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

SIGNED Larry A. Cowell TITLE Manager Of Operations DATE November 27, 1978

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

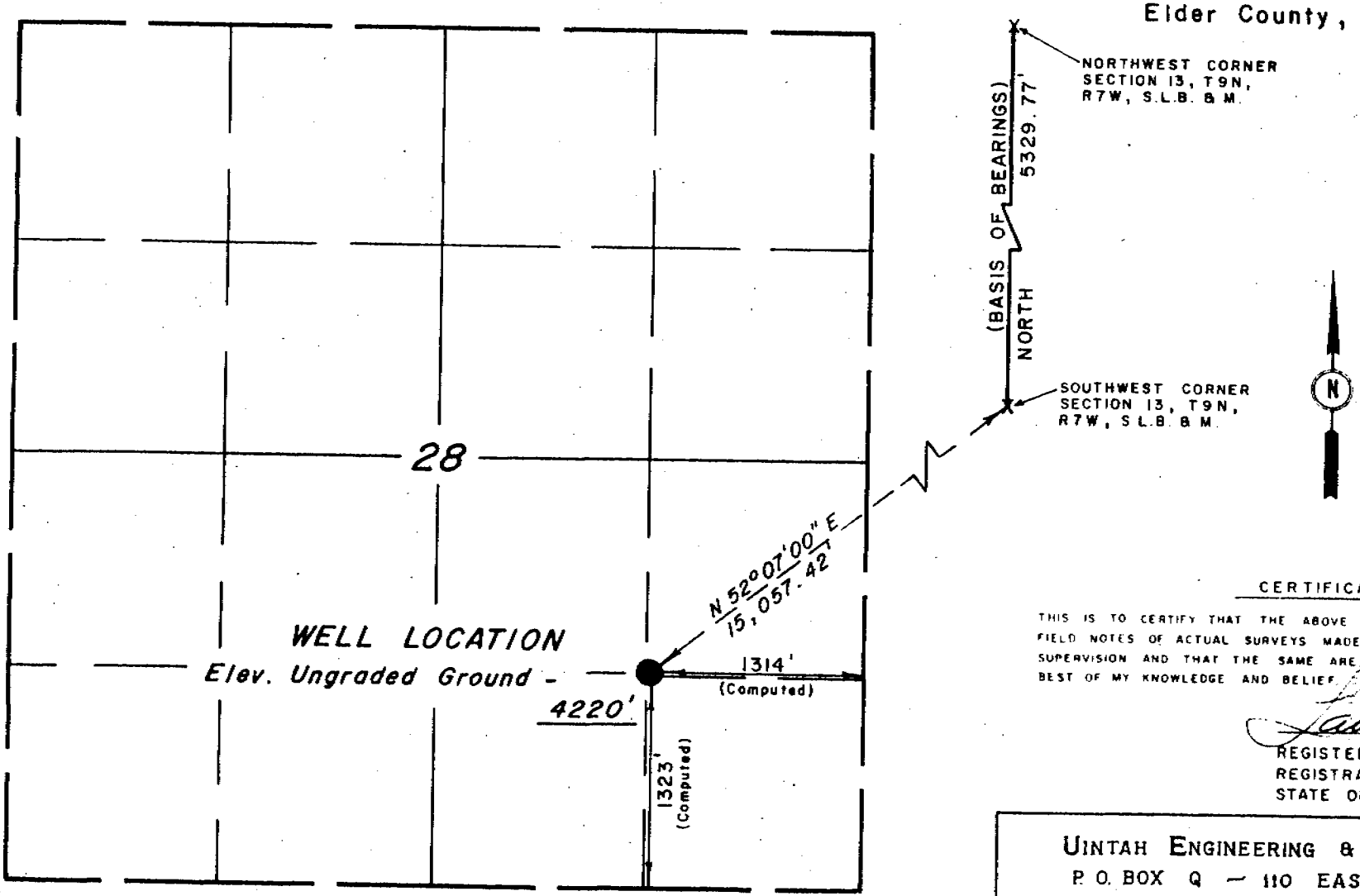
*See Instructions on Reverse Side

PROJECT

K.D. LUFF

Well location located as shown in the SE 1/4 Section 28, T9N, R7W, S.L.B. & M. Box Elder County, Utah.

T9N, R7W, S.L.B. & M.



X = Section Corners Located

CERTIFICATE

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

Lawrence R. Gray

REGISTERED LAND SURVEYOR
REGISTRATION No 3137
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX Q — 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 4/17/78
PARTY RK JB DJ	REFERENCES G.L.O. Plat
WEATHER Cloudy, Windy, & Cool	FILE K.D. LUFF

DRILLING DATA

Well Name. *BAR-B-TRUST 1-28*

Operator. *K.D. LUFF INC.*
Drilling Supt. *John Steele*

Location. *C. SE 1/4 Sec.28 T.9 N, R.7 W.*
BOX ELDER CO., UTAH WILDCAT.

Elevation. *4232 KB 4220 Gr.*

Date Drilling Commenced. *Nov. 4, 1978*

Date Under Surface. *Nov. 8, 1978*

Date Drilling Complete. *Nov. 16, 1978*

Total Depth. *4540*

Date Plugged. *Nov. 22, 1978.*

Status. *Dry P/A*

Geologist. *Bob O White*

Surface Pipe. *52' Surface Cond.* *511' 13 3/8" Set 508*

Plugs Set. *10' Top Casing 450'-550' Bottom Casing 2150'-2250' 4100'-4200' Above Brockish Water-Lost Circ.Zone. 4335-4435 Across Top Miss.*

Oil or Gas Shows. *None*

Logs Run. *2 Attempts Could Not Get Below 989'-1005'*

Drill Stem Tests. *None*

Formation Tops, Cuttings. *0'-400' Tert. Fill. 400'-4385' Salt Lake Group. 2280'-2540' Congl. Zone. 4385' Paleozoic Miss. Humbug*

Mud Logging Co. *Rocky Mtn. Geo-Engineering*

Operators. *Mark Eden Douglas Baron*

Mud Company. *Drilling Mud Inc.*

Engineer. *Stan. Thompson*

Drilling Contractor. *Chandler & Assoc.*

Drilling Supt. *Karl Winters*
Tool Pusher. *D.L. Fladeland.*

Rig No. *1.*

Rig Type. *National T-32*

Draw Works. *National T-32*

Power. *G.M.C. 671*

Pumps. *1. D-300 5 1/2" Liner 16"* *2. D-300 5 1/5" Liner 14"*

Drill Pipe. *F.H. 4"*

Tool Joints. *H.T.C. 5 1/4"*

Drill Collars. No. *16* O.D. *6"* I.D. *2 3/8"* Length. *468'*

DRILL CUTTINGS ANALYSIS

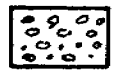
WELL 1-28 BAR-B-TRUST

C SE 1/4 SEC. 28 T. 9 N. R. 7 W.

BOX ELDER CO., UTAH

BOB O WHITE GEOLOGIST S.L.C. UTAH

Sandstone

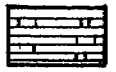

Conglomerate grit-pebble

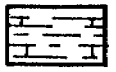
Sandstone Calc.

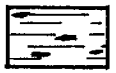
Agglomerate

Quartzite

Siltstone Calc.

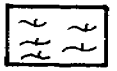

Clay Calc.

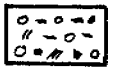

Shale Calc.

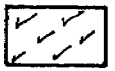

Shale Carbonaceous

Limestone

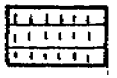
Limestone oolitic


Marl. clay-silt. calc.


Tuff Mixed Volc. ash. glass. dk. frag.


Tuff. finer-clay

Basalt Flow


Clay. calc. sticky. low swell bentonitic

AVE. DRILL RATE MIN/FT.	LITHOLOGY INTERPRETIVE	LITHOLOGY PERCENTAGE	DEPTH	MISC DATA	DESCRIPTION
5 10 15					Silt-Clay. Tan-Gray. Calc. Alk. Interbedded Laminated to Massive Soft Compact.
			50		
					SS-Grit Congl- Qtz Granules Clear Frosted Trace of Red Br shale. Mixed with Lt Tan Clay-silty Calc. Saline Tight
			100		Marl. Ltgry ⅔ some oolite Ls Cream Colored-Aggregates Dense ⅓ Igneous SS-grit Rd-Br. Interbedded
					Conglomerate grit-pebble Qtzite white-red-Br. Ls-Cream colored-fine grained dense
			150		Conglomerate-SS-grit sized-Var. Colors-⅓ Ls-Cream colored. Dense-fine grained.
					AA
			200		
					Congl. ⅔ Ls. Cream colored-Dense ⅓ Qtzite SS-grit Coarse interbedded.
			250		Congl. Qtzite grit-pebble var. colors. fine grained-some Calc. Cement
					Congl. Qtzite Var colors ⅓ oolite Ls. Cream colored Dense ⅓ Igneous-SS-OR Red-Br. ⅓
			300		AA Less Ig material
					AA Coarser
			350		
					oolitic Ls Lt Cream pellets Aggr. ⅔ Qtzite SS various colored. Interbedded.
			400		AA Salt Lake Group
					Basalt Flow-OR Red-Br. Dense Hard-some visicular. some Interbedded Ls-Creamy-Very fine Grained. Dense Trace Marl.
			450		
			500		Marl Lt gray ½ Igneous SS ½ Some Blk Vol glass frag-Ang.

AVE. DRILL RATE MIN/FT.	LITHOLOGY INTERPRETIVE	LITHOLOGY PERCENTAGE	DEPTH	MISC DATA	DESCRIPTION
5 10 15					Ash-Med Gray Vfg Calc 1/2 Glass Blk Coarse Angl. fragment 1/2 Ig. Flow. Some Ls Cream - Vfg - Dense. UNC
			550		Ash Lt gray-wh. 1/2 Ing Flow DK Red-Br 1/2 Trace Lt-Cream
					Ls-Dense fg. Trace Cl Qtz. UNC. UNC
					Flow 2/3 All other 1/3 UNC
					AA Trace Blk glass
			600		AA Trace Ang-Cl. Qtz Trace glass Some Ls UNC
					Clay Lt Tan-White Calc
					AA
					Flow 1/2 Ash 1/2 Ls creamy Dense fg 1/4 UNC
					AA
					Flow 1/2 Ls 1/8 Marl Ashy 1/4 UNC
			650		AA
					AA Trace Tan Ls. UNC
					AA Trace Bl glass UNC
					AA
					AA
			700		Ash 2/3 Ig Flow 1/3 Tr. Cream Ls Dense UNC
					AA
			750		Marl. Lt wh.-Gray - Soft - to Med - Dense Calc. 4/5 Ig Flow 1/5
					AA Trace Flow
			800		
					AA Trace Flow. Marl. Var-Calc. Var. soft to Med Lt wh-Gray.
					AA no flow rock Vfg.
			850		
					Clay. whit- Very soft sticky. Low swelling Bentonitic slightly Calc.
			900		AA silty vfg
					AA
			950		
					AA
			1000		AA Trace Interbedded Ls Cream. Vfg Dense.

AVE. DRILL RATE MIN/FT. (5, 10, 15)	LITHOLOGY: INTERPRETIVE	LITHOLOGY: PERCENTAGE	DEPTH	MISC DATA	DESCRIPTION
					Clay Ltwh-gray Calc. vfq- var. Hardness Ver Calc. Trace Iq Flow
			1050		AA Trace Ls. Interbedded. Some Hard to Med.
					AA Coarser Some Vol. Ash. wh.
			1100		AA Trace Iq Flow
			1150		AA. Fine - Med.
					AA
			1200		AA Trace Flow. Trace Cream Ls. Hard vfq Dense
					AA no flow - soft Dense
			1250		AA Silty Lt gray
			1300		AA
					AA
			1350		AA
					AA
			1400		AA
					AA Coarser becoming More Ashy.
			1450		
					AA More Ashy Trace Dark Vol. ss.
			1500		AA. Less Bentonitic

AVE. DRILL RATE MIN/FT. (5, 10, 15)	LITHOLOGY: INTERPRETIVE	LITHOLOGY: PERCENTAGE	DEPTH	MISC DATA	DESCRIPTION
					Tuff. Lt wht-gray. fine grained Ash and Clay Calc in part.
			1550		AA Less Ashy
					AA
			1600		
					AA.
			1650		AA Trace DK Vol. SS
					AA
			1700		AA
					AA Less DK Vol.
			1750		
					AA More Ash, wht-Lt gray. Calc
			1800		AA Trace Gilsonite like material. Vitreous Black Brittle Conc Fracture no cut in naptha-Melt in flame.
					AA Trace Vol. Trace Ls. Tan Vfg Dense. Trace cl glass Vol. Bubbles
			1850		AA Trace of Gil.-or Lig Coal.
					Ash. Trace DK Vol. Trace Ls.
			1900		
					Ash Trace BlK Vol. Glass
			1950		Ash More Ls. no BlK glass Trace cl. Vol glass
					Ash. Trace DK Vol. SS.
			2000		Ash. Trace Gil. or Lignite

AVE. DRILL RATE MIN/FT.	LITHOLOGY INTERPRETIVE	LITHOLOGY PERCENTAGE	DEPTH	MISC DATA	DESCRIPTION
1 5 10 15					Ash fine Trace of coarser Ash
			2050		
					AA Trace of Ls.
					AA Trace Gil or Coal
			2100		
					AA Some DK vol ss.
					AA Trace Ls Cream-ltg Dense
			2150		
					AA Ash coarser Some DK Volc ss. Fine No Ls.
			2200		
					AA Trace DK Volc
					AA Finer Some Ls
			2250		
			2260		Ash Fine. Pomice. in Ash Fine interbeds Some Calc. Micro Laminated. Some Congl. Volc.
			2290		Conglomerate Zone
			2300		Congl. grit. R-Br. Col Siltstone. Some Volc Flow Debris Tan Ls. Qtzite. Ash. Cl Qtz, Trace Chert. Tan
					Congl. Var. Colors. Some Ls silty-Qtzite - Trace Lt gray shale Dense
			2350		
					Congl. ½ More Gray Shale Med Hard
					Congl. Grey Volc. Gray shale Qtzite. Ls. Var. Color.
			2400		
					AA Interbedded
					AA Trace Cl - Milky Qtz.
			2450		
					AA Congl.
			2500		

AVE. DRILL RATE MIN/FT.	LITHOLOGY INTERPRETIVE	LITHOLOGY PERCENTAGE	DEPTH	MISC DATA	DESCRIPTION
5 10 15					AA Mixed. Qtzite. Ls. Br. shale. Volc. Ash.
			2540 2550		AA More Ash; Volc glass Tuffaceous Consolidted Base of Conglomerate zone
			2560		Ash gray-wh Volc glass Cl. Trace Ls gray Dense Tuffaceous Consolidated
			2600		Glass Volc Cl. Bubble. Shards. some Ash. some DK Volc Flow.
					AA. Ash 1/2 Trace Ls. wh. Dense
			2650		
					Ash 1/2 Glass 1/2 Trace Ls Tuffaceous
			2700		AA. Ltgray to wh.
					AA. More Ash. fine
			2750		AA Ash more-Clay size
			2800		Ash. some glass Some fine DK volc
					Ash. Glass Clay Volc origin
			2850		AA glass Ash
					AA Some Clay Size - weathered Ash
			2900		Ash - glass Vol. Freq. Some Trace Gil or Coal
					AA
			2950		
					AA Trace Ls Dense Creamy Trace DK Volc.
			3000		AA.

AVE. DRILL RATE MIN/FT.	LITHOLOGY INTERPRETIVE	LITHOLOGY PERCENTAGE	DEPTH	MISC DATA	DESCRIPTION
5 10 15					AA Becoming More Clay like Consol.
			3050		AA Less Clay Size Some Sandy DK Volc.
					AA
			3100		
					AA Trace Br SS Trac. Ls. Cream. Vfg Dense
			3150		AA More Calc. Finer. More Clay Size Trace Volc. Less Glass.
					Tuffaceous. Less glass. fine. Trace Gil
			3200		AA. More Glass. Some Ls. Trace Gil
					AA More clay like Less glass Trace Lig Coal or Gil.
			3250		Ash Fine Trace BLK glass. Trace Cl. glass Trace Ls. Gil. Tan. Trace Gil.
			3300		Ash fine Cl. glass. Trace LS Creamy. Trace Sh. Lt Green Bentomitic Trace Gil.
					Ash fine to clay. Trace DK Vol. Trace Ls. Trace Gil. or
			3350		ASH Some glass Trace gil.
					Ash clay like Some glass Trace DK vol. Trace Gil.
			3400		
					Tuff welded. Some Green Shale Dense Ls grey Dense f.gr. Less glass. Trace Gil
			3450		AA Less glass Some Br. Lig-Shale.
			—	—	AA. Trace glass Trace Ls Trace DK Volc.
			3500		Ash – fine Clay Some DK Volc Some glass Interbedded.

AVE. DRILL RATE MIN/FT.	LITHOLOGY INTERPRETIVE	LITHOLOGY PERCENTAGE	DEPTH	MISC DATA	DESCRIPTION
5 10 15					Ash. Trace Ls. wh. Dense Trace DK Visiculor Volc.
			3550		Ash. Gray - wh Micro Laminated. Trace glass cl. Trace DK Volc. Some gray-green Bentonitic.
			3600		Ash - clay. Some cl Volc glass - Some Gray green Shale Trace Vesicular DK Volc.
					Ash More cl glass
			3650		Ash Clay like. More cl glass. Some DK Vis. Volc.
					Ash - Glassy Some Ls.
			3700		
					Ash - glassy Some Ls. Some Vis DK Volc.
			3750		Ash - Fine cl Vol glass 1/3. no Ls. Some DK Vis. Volc
					Ash fine 1/2 Glass 1/2 Some DK Vis. Volc.
			3800		Ash Fine - clay glass Some Ls
					Clay-Ash. glass Micro Congl. wh calc SS. Gray Ls Tan Calc. Silt stone Lt Chert Trace Green Siltstone. Interbedded cemented by clay-Ash
			3850		
			3900		
					Same Clay-Ash SS wh-Calc Lt Tan Siltstone
			3950		AA. More glass Less others.
					Clay-Calc Lt gray. Shaly silty-Carb. Ir. SS Lt gray Calc
			4000		Ls Creamy. Vtg Dense Trace Grey Ls. Trace Qtz Milky Some Bentonitic clay.

AVE. DRILL RATE MIN/FT.	LITHOLOGY INTERPRETIVE	LITHOLOGY PERCENTAGE	DEPTH	MISC DATA	DESCRIPTION
5 10 15					AA. in part More cl Volc glass Trace Ls
113			4050		AA Clay calc Ash. some glass.
					AA. Mixed More SS. Sh. Quartzite
			4100		AA More SS Sh.
					AA. Less Volc
			4150		Congl. Micro SS. Ls. Sh gray green Some Tan Chert
			4200		AA.
					AA. Some Qtzite.
			4250		AA More Qtzite coming in
					AA mixed Interbedded changing Back to Glass And Ash
			4300		Ash - Glass. Some Congl.
			4350		AA.
114					AA
			4385		Miss. (Humbug) Mixed. Tan Qtzt. Lt.gy Ls. Rd.brn. Qtzt. C. Qtz. wh. Qtz. sub rd - ang. frag. Hard. Congl. Siltstone Calc. - Lt.gy. wh - Qtzt tan - Dk Br. composed sub.rd. Qtz. cl. and Chert Blk. Salt - Pepper. Trace Tan Chert - Trace cl Qtz Crystal.
			4400		Evidence of Small Vugs with Qtz Crystal All hard Dense well cemented. Interbedded
115					AA
			4450		AA
					AA
			4500		

AVE. DRILL RATE MIN/FT.	LITHOLOGY INTERPRETIVE	LITHOLOGY PERCENTAGE	DEPTH	MISC DATA	DESCRIPTION
5 10 15					AA
1/16			4550		AA TD 4540
					Daily Report
			NOV	2	Reported in
			NOV	3	
			NOV	4	Reported Rig up SS-grits etc Drilling 0-229
			NOV	5	Reported Shut Down 520' waiting on Hole opener Igneous Flow at 400- Drill 229- 520 ft
			NOV	6	Casing Set 511' set 508' TD 13 3/4
			NOV	7	getting ready to cement will Drill out about Tues. 6:30 AM going in hole to drill out cement.
			NOV	8	Started to Dill out under surface Casing 510' —
			NOV	9th	794' 7.00 AM Claystone Limey. Drilling 2332 7:00 At 2280 8 minutes foot 2290 qtzite Igneous: 2320 qtzite 2340 shale 4-5 minutes foot.
			NOV	10th	2865' 2280 Qtz - 2540 Start of glass
			NOV	11th	9:00 3316' 4-10 minutes 3326 9:30 Glass Tuff-Ls-
			NOV	12th	Carb Sh. Interbedded. 3433 4.00 working on table At 3802 Same Lithology
			NOV	13th	8:45 Mixed becoming more Sil and Shaley Slope Test 8 1/8 4366 Lost Circ. made some water 4200 down fast drilling Tight Hole Mudding up.
			NOV	14	4366 Lost Circ. Mudding up will try regain and clean to bottom.
			NOV	15	TD at 4540 155 feet into Miss. Humbug formation Called Logging Crews Got stuck coming out of hole 2225' Sent Crew to town. got unstuck, got crew back.
			NOV	16	got stuck at 1343 Released Crew. Fishing
			NOV	17	Fishing. waiting on larger B.O. Preventer. So can wash down to top drill collars at 787. Shot off 1 Joint above 16 Drill collars
			NOV	18	Reported Trace flor. due to Ls.. Fishing
			NOV	19	Fishing - Reaming - going to Log
			NOV	20	Trying to log - Can't get Below 989-1005
			NOV	21	Trying to log - waiting on orders will plug well - Cementers Called State Oked Procedure
			NOV	22	Cement plugs set.

BIT RECORD

NO.	SIZE	MAKE	TYPE	SERIAL	DEPTH IN	DEPTH OUT	FEET	HRS.	FT. HRS.	ACC. HRS.	WT. 1000 LB.	RPM	VERT. DEV.	PUMP PRESS.	PUMP OPER	S.P.M. 1	S.P.M. 2	MUD WT.	MUD VIS.	DULL	C	D
1	12 1/4"	H.T.C.	OSC-3	ML-878	50'	520'	470'	12 1/4	38.37	12 1/4	ALL	150	7/8°	700	S	65		9.1	45			
2	17 1/2"	SUP.	HO	R 989	50'	514'	464'	10 1/2	44.20	23 3/4	ALL	90	7/8°	400	S	60		9.1	45			
3	8 3/4"	H.T.C.	OSC-3J	JV 732	520'	1825'	1305'	11 1/4	104	35 1/4	20	140	6 1/4°	1100	S	63		9.1	30	4	5	I
4	8 3/4"	H.T.C.	OSC-3J	XW 422	1825'	2395'	570'	11 1/4	50.6	46 1/2	14	120	7°	1000	S	65		9.1	29	7	4	I
5	8 3/4"	H.T.C.	OSC-IGJ	C5 226	2395'	2856'	461'	12 1/4	37.6	58 3/4	14	120	6°	1000	S	65		8.6	29	7	6	I
6	8 3/4"	SMITH	F2	825-TB	2856'	4540'	1686'	84 1/2	20	143 1/4	14	70		800	S	60		9.1	40			

HOLE DEVIATION

520'	1825'	2300'	2395'	2797'	3079'	3389'	3754'		
7/8°	6 1/4°	7°	7°	6 1/4°	7°	8 1/8°	8 1/8°		

DRILL LOG SUMMARY

DATE	TOWER 1 11.00-7.00 2 7.00-3.00 3 3.00 11.00	WT VIS.	MUD DATA TIME	TIME	TIME	HOLE-DEV.	PUMP DATA R.P.M.	WT.	P.P.	SPM	EVENTS
11/2											Moving in Rigging up
11/3											Moving in Rigging up
11/4	1										Rig up Make up water pit 15000 Ch. 900 Ca. Water Hauled 3000 Ch. 80 Ca.
	2		9.00 40	11.00 45	3.00 43		150	ALL	600		Drilling 0-198' 12 1/4" Hole
	3		5.00 48	7.00 46	9.00 45		150	ALL	700		Drilling 198'-470' 12 1/4" Hole
11/5	1		11.00 9.2 36	3.00 9.1 39	6.00 9.0 40		150	14	700		Drilling 470'-520' 12 1/4" Hole
	2		9.00 9.1 45	11.00 9.1 44	1.00 9.1 46	7/8° 520	90	ALL	400		Reming 0'-233' 17 1/2" Hole
	3		9.6 36								Reming 233'-477' 17 1/2" Hole
11/6	1			11.00 9.8							Reming 477'-514' 17 1/2" Hole Rigging up to run casing 11.30
	2										Run 13 3/8" casing 7.00-8.00 Cementing
	3										Waiting on Cement to Harden
11/7	1										Wating
	2										Starting in Hole 8:30 Twist off Rotary Table Shaft
	3										Wait on Rotary Table
11/8	1						100	20	550	54	Mud up. Start Drill 12:00 520'-847' 8 3/8"
	2						140	20	1100	53	Drilling 847'-1703' 8 3/8"
	3			4.00 9.1 28	10.00 8.9 28	6 1/4" 1825'	140 140	20 12	1100 800	63 60	Drilling 1703'-1825' 1825'-2005'

11/9	1						140	14	800	59	Drilling 2005-2333
	2					7° 2300 7° 2395	120	14	1000	65	Drilling 2333-2395- 2395-2415
	3		3:00 8.6 27	7:00 8.6 28	11:00 8.6 28		120	14	1000	65	Drilling 2415-2617
11/10	1					6 1/4° 2797	150	14	900	65	Drilling 2617-2856 Drilling with water
	2						7.4	14	950	58	Drilling 2856-2962
	3		3:00 8.6 26	7:00 8.6 26	11:00 8.6 26	7°	74	14	900	60	Drilling 2962-3126
11/11	1						72	14	850	60	Drilling 3126-3277
	2					8 1/8 3389	70	14	850	60	Drilling 3277-3389
	3						7°	14	800	60	Drilling 3421-3578
11/12	1						70	14	800	60	Drilling 3578-3743
	2					8 1/8° 3754	70	14	800	60	Drilling 3743-3868
	3		3:00 8.8 27				70	14	800	60	Drilling 3868-4011
11/13	1						70	14	800	60	Drilling 4011-4270
	2						70	14	800	60	Drilling 4270-4366 working tight hole 11:15-12:30 - muding up
	3										Drilling 4366 3:00-11:00 mud. circ. cond hole Losing partial circ. regain circ. at 9:00 pm.
11/14	1			3:00 8.8 30	6:30 3.3				3:00	300	Drilling 4366 Cond. Circ. Mud. Full returns 5:30
	2		9:00 9.1 39	11:00 9.1 39	1:00 9.1 38		70	14	800	60	Drilling 4366-4422
	3		3:00 9.2 42	7:00 9.2 40	10:00 9.2 38		70	14	800	60	Drilling 4422-4459
11/15	1		9:00 9.0 43				70	14	800	60	Drilling 4459-4540 5:30 AM. T.D.
	2										Circ. Cond. Mud 7:30-8:00 Wipe hole free. 8:00-10:00 circ. cond mud.
	3										TD 4540 - Coming out Log 5:00 P.M. 3:15 Stuck. 6:45 waiting on Jars.
11/16	1										Fishing
	2										Fishing
	3										Fishing

11/17											Fishing 16 Drill Collars 1 Stand Pipe Stuck 797
											Fishing made 15' Reaming 8 3/8" to 12 1/4"
											535 – 793 12 1/4. top of fish. waiting tools
11/18											Wait on tools
			5:30 8.7 28								Fishing
											Fishing
11/19											Reaming 787-1119 8 3/8"
											Reaming to collars Circ. Cond. Mud Ream to 4360
											Ream to bottom Circ. for logs
11/20											Waiting on Logging Truck 11:30-3:30 Rig-up to run logs 7:00 repair log tools.
											Repair log tools 10:30 go in hole cant get past 989'-1005' 2:00 trip in hole to clean out.
											Clean out to bottom 11:00 Trip out work tight hole
11/21											11:00 Rig up Sch. tools. could not get below 989-1005 2:00-7:00 wait on orders.
											7:00-3:00 wait on orders.
											3:00-11:00 wait on orders.
11/22											11:00 start to set cement plugs.

Form OGC-3

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

10

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

RECEIVED DEC 14 1978 DIV. OIL, GAS, & MINING

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

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

2. NAME OF OPERATOR: Kenneth D. Luff, Inc.

3. ADDRESS OF OPERATOR: 1730 Colorado State Bank Bldg. Denver, Colorado 80202

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: C SE/4 (1323' FSL & 1314' FEL)
At top prod. interval reported below
At total depth

5. LEASE DESIGNATION AND SERIAL NO.: --

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: --

7. UNIT AGREEMENT NAME: --

8. FARM OR LEASE NAME: Bar-B Trust

9. WELL NO.: #1-28

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Section 28, T9N, R7W

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
43-003-30004	8-24-78	Box Elder	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
11-4-78	11-15-78	NA 11/22/78	GR 4220'; KB4231'	--

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
4550"	NA	NA	→	All	--

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

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: None-See Geological Report

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"	48#	509'KB	17¼	750 sx	None

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
NA		

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

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
Plugged well=	4355-4455 36 sx
	4100-4200 36 sx
	2150-2250 36 sx
	440- 450 55 sx
	Surface 10 sx w/dry hole marker

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
NA	NA	Dry

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

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

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

TEST WITNESSED BY:

35. LIST OF ATTACHMENTS: Geological Report

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

SIGNED Larry A. Cornell TITLE Manager of Operations DATE 11-30-78

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

PLA

112429

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

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

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

November 13, 1986

TO: File - Kenneth D. Luff, BAR-B-TRUST 1-28

FROM: Dorothy Swindel, UIC Geologist DS

Per a phone conversation on November 12, 1986, Mr. Jim DeFlon, (landowner) requested information from the Division concerning an abandoned well location in Sec. 28, T9N, R7W, Box Elder County. Mr. DeFlon stated that he was satisfied with the fact that the reserve pit had not been reclaimed, and did not want the pit reclaimed. There is currently a spring surfacing in the old pit and he wishes to retain the new water supply. Mr. DeFlon understood that proper permits from the Division of Water Rights must be obtained.

The Division supported his request to retain the open reserve pit.

mfp
cc: Carol Revelt, DOGM

0055U-56

RECEIVED
DEC 17 1986
DIVISION OF
OIL, GAS & MINING

September 9, 1986

State of Utah
Oil, Gas and Mining Commission
606 Black Hawk Way
Research Park
Salt Lake City, Utah 84108

RE: Reserve Pit
1-28 Bar-B Trust
C SE Sec. 28, T9N, R7W
Box Elder County, Utah

Gentlemen:

As owner of the surface for the referenced Kenneth D. Luff dry hole, I do not object to the reserve pit being left in its present open status.

I understand that it will not be backfilled and do not foresee any potential problems.

Very truly yours,

JAMES G. DeFLOW

James G. DeFlow

15527 Lodosa Drive
Whittier, California 90605