

FILE NOTATIONS

Entered in NID File
Location Map Pinned
Card Indexed

Checked by [redacted] of [redacted]
Approval Letter
Disapproval Letter

JMB
.....
11-19-90

COMPLETION DATA:

Well Completed
..... WW..... TA.....
..... OS..... PA.....

Location Inspected
Bond released
State or Fee Land

LOGS FILED

Driller's Log.....
Electric Logs (No.)
E..... I..... Dual I Lat..... GR-N..... Micro.....
HC Sonic GR..... Lat..... Mi-L..... Sonic.....
CBLog..... CCLog..... Others.....

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

5. Lease Designation and Serial No.

Patented

6. If Indian, Allottee or Tribe Name

7. Unit Agreement Name

8. Farm or Lease Name

Christensen

9. Well No.

1-33A5

10. Field and Pool, or Wildcat

Altamont (Wildcat)

11. Sec., T., R., M., or Blk. and Survey or Area

33-T 1S-R 5W

12. County or Parrish 13. State

Duchesne Utah

1a. Type of Work

DRILL

DEEPEN

PLUG BACK

b. Type of Well

Oil Well

Gas Well

Other

Single Zone

Multiple Zone

2. Name of Operator

Shell Oil Company (Rocky Mountain Division Production)

3. Address of Operator

1700 Broadway, Denver, Colorado 80202

4. Location of Well (Report location clearly and in accordance with any State requirements.)*

At surface

2033' FNL and 658' FEL Sec 33 (SE/4 NE/4)

At proposed prod. zone

SESENE

14. Distance in miles and direction from nearest town or post office*

4 1/2 miles SW of Mountain Home, Utah

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

658'

16. No. of acres in lease

315

17. No. of acres assigned to this well

40

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

No other wells on lse

19. Proposed depth

14,000' *Wasatah*

20. Rotary or cable tools

Rotary

21. Elevations (Show whether DF, RT, GR, etc.)

6893.2 GL (Ungraded)

22. Approx. date work will start*

12-1-70

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement

As per attached drilling prognosis and certified survey plat.

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 *J. C. Howell* Title Division Petroleum Engineer Date November 16, 1970

(This space for Federal or State office use)

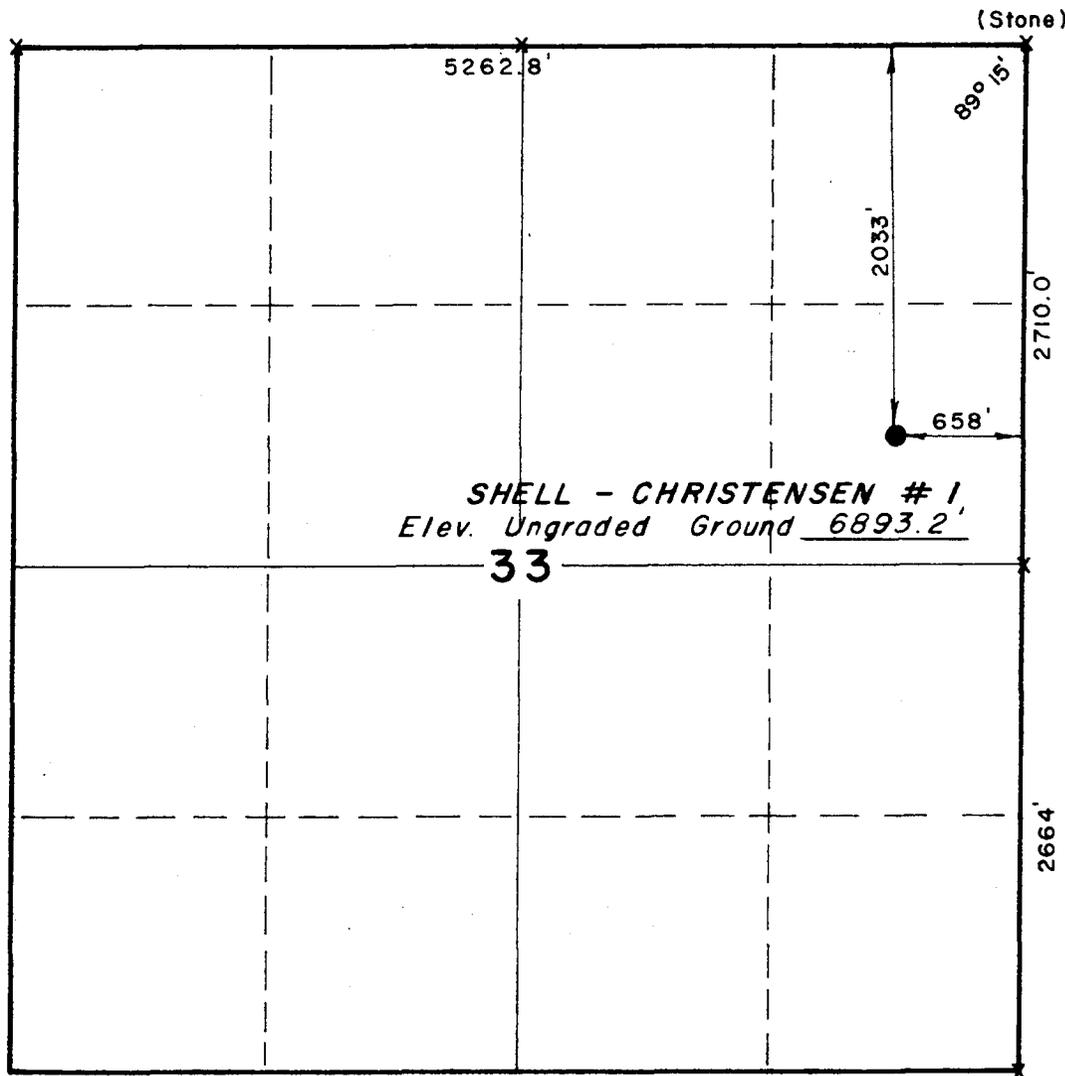
Permit No. 43-013-30854 Approval Date

Approved by..... Title..... Date.....
Conditions of approval, if any:

T 1 S, R 5 W, U.S.B. & M.

PROJECT

SHELL OIL COMPANY
 SHELL - CHRISTENSEN # 1, Well
 location, located as shown in the
 SE 1/4 NE 1/4 Section 33, T 1 S,
 R 5 W, U.S.B. & M., Duchesne
 County, Utah.



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.

Jane Stewart

REGISTERED LAND SURVEYOR
 REGISTRATION NO 3154
 STATE OF UTAH

X = Corners Located or Re-established

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

SCALE 1" = 1000'	DATE 9 Nov. 1970
PARTY GS - KM - BR	REFERENCES GLO Township Plat
WEATHER Clear & Cool	FILE SHELL <i>g</i>

DRILLING WELL PROGNOSIS

WELL NAME Christensen #1
 TYPE WELL Wildcat
 FIELD/~~XXX~~ Altamont

APPROX. LOCATION (SUBJECT TO SURVEY) SE NE Sec. 33-T1S-R5W, Duchesne, Utah

EST. G.L. ELEVATION 6920 PROJECTED TD 14,000 OBJECTIVE Wasatch

HOLE SIZE	CASING PROGRAM	LOGGING PROGRAMS	MAX DEV.	DEPTHS AND FORMATION TOPS	SPECIAL INSTRUCTIONS
	26"	Dry Hole Digger		30'± DHD	SAMPLES: 30' sfc to 6000' 10' 6000' to 10,000' 5' 10,000' to TD CORES: 500' over entire well DST'S: TGR1 ---- 2 TGR2 ---- 1 TGR3 ---- 2 Wasatch ---- 6 DEVIATION CONTROL Dogleg severity to be less than 1 1/2° per any 100' interval CEMENT See casing programs MUD Water sfc to 10,000' Gel-chemical 10,000' to 11,800' Weighted gel-chemical 11,800' to TD See mud program for additional details
24"	20"	Through boulders if required		200'±	
17 1/2"	13 3/8" (to surface)		1°	1000'	
12 1/4"	9 5/8" (to surface)	GR/BHC/AC GR/BHC/FDC PML/DIL/SNP/FDT/TVT Two man mud logging unit	1°	1000'	
8 5/8"			1°	1000'	
				TD 14,000'	

ORIGINATOR

LAP

DATE 11-9-70

ENGINEERING APPROVAL: *BES*

OPERATIONS APPROVAL:

EXPLOITATION *J. C. Howell 11/10/70*

MECH. *11-10-70*

W. S. Mandy...
 DIV. DRILLING SUPT.

November 19, 1970

Shell Oil Company
1700 Broadway
Denver, Colorado 80202

Re: Christensen Fee 1-33A5
Sec. 33, T. 1 S, R. 5 W,
Duchesne County, Utah
API No. 43-013-30054

Gentlemen:

Insofar as this office is concerned, approval to drill the above mentioned well is hereby granted.

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

PAUL W. BURCHELL-Chief Petroleum Engineer
HOME: 277-2890
OFFICE: 328-5771

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

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation with regard to this request will be greatly appreciated.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT
DIRECTOR

CBF:sd

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STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION
 Salt Lake City 14, Utah

REPORT OF OPERATIONS AND WELL STATUS REPORT

State Utah County Duchesne Field or Lease No. Uintah Basin

The following is a correct report of operations and production (including drilling and producing wells) for
March, 1971

Agent's address 1700 Broadway Company Shell Oil Company

Denver, Colorado, 80202 Signed *P. Peterson*

Phone 333-222-8454 Agent's title Division Services Manager

State Lease No. _____ Federal Lease No. _____ Indian Lease No. _____ Fee & Pat.

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)	
								No. of Days Produced	
Sec. 26 Approx. NE 1/4	2S	5W	1	-	-	-	-	-	<u>Murdock Lease</u> Drilling Depth - 13,850' Fee Land
Sec. 33 SE 1/4 NE 1/4 2058' S & 833' W of NE Cor.	1S	5W	1-33-A5	-	-	-	-	-	<u>Christensen Lease</u> Drilling Depth - 9779' Fee Land
Sec. 26 Approx. C NE 1/4	2S	5W	1	-	-	-	-	-	<u>Murdock Lease</u> Drilling - Depth 11,676' Fee Land
Sec. 33 SE 1/4 NE 1/4 2058' S & 833' W from NE C	1S	5W	1-33-A5	-	-	-	-	-	<u>Christensen</u> Drilling - Depth 5,720' Fee Land

Note: There were 3016 runs or sales of oil; 0 M cu. ft. of gas sold; 0 runs or sales of gasoline during the month.

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

FILE IN DUPLICATE

*STATUS: F-Flowing P-Pumping GL-Gas Lift
 SI-Shut In D-Dead
 GI-Gas Injection TA-Temp. Aban.
 WI-Water Injection

CASING AND CEMENTING

Field: NO. UINTA BASIN

Well: Christensen 1-33A5

Shoe joint started in hole 2/25/71.

Ran 162 jts 13 3/8" S-80 68# casing to 6810'.

<u>Jts.</u>	<u>Wt.</u>	<u>Grade</u>	<u>ST&C</u> <u>LT&C</u>	<u>New</u>	<u>Feet</u>	<u>From</u>	<u>To</u>
162	68	S-80			6,815	0	6,810

162 Jts Total

DV Collar at 1,008'
Diff. Fill-up Collar at 6,767'
Shoe at 6,810'

No. Make & Type:

Centralizers-"1" @ shoe, "1" above float & "1" every other jt.-total of "7" on bottom & "1" below DV tool-"2" Bkr metal petal baskets under DV.

Cementing:

Cemented first stage w/985 sx 60-40 poz "A", 2% gel and 300 sx Neat Type "G". Bumped plug w/2,000 psi, held ok. Cmt in place @ 3:05 a.m. Dropped bomb & opened DV collar @ 3:45 a.m. Cemented second stage through DV collar @ 1,008'. Put 20 bbls wtr ahead. Cemented w/1475 sx RFC w/8% D-53 & 3% CaCl₂. Lost returns w/approx 50 bbls slurry out DV tool. Displaced w/rig pump. Plug down 9:15 a.m. 2/25/71 w/2500 psi; DV held ok. First outside job-ran 570' 1 1/4" tbg & mixed 150 sx Class "G" cmt, 6% gel, 3% CaCl₂, & 1/4#/sx Flocele. No returns. Job complete 10 p.m. Second job-ran 340' 1 1/4" tbg & mixed 200 sx Class "G", 6% gel, 3% CaCl₂, & 1/4#/sx Flocele. Circ'd cmt (approx 10 bbls). Job complete 2:30 a.m. 2/26/71.

THE STATE OF UTAH
DIVISION OF OIL AND GAS CONSERVATION

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

P I
PMP

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> Well dead		5. LEASE DESIGNATION AND SERIAL NO. Patented
2. NAME OF OPERATOR Shell Oil Company (Rocky Mountain Division Production)		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 1700 Broadway, Denver, Colorado 80202		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2033' FNL and 658' FEL Sec 33		8. FARM OR LEASE NAME Christensen
14. PERMIT NO. 43-013-30054		9. WELL NO. 1-33A5
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6893 GL, 6920 KB		10. FIELD AND POOL, OR WILDCAT Altamont (Wildcat)
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SE/4 NE/4 Section 33-T 1S-R 5W
		12. COUNTY OR PARISH Duchesne
		13. STATE Utah

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

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

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

As per attached prognosis

APPROVED BY DIVISION OF OIL & GAS CONSERVATION
DATE 1-24-72
BY [Signature]

18. I hereby certify that the foregoing is true and correct
SIGNED [Signature] TITLE Division Operations Engr. DATE January 20, 1972

(This space for Federal or State office use)
APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

REMEDIAL PROGNOSIS
SHELL-CHRISTENSEN 1-33A5
SECTION 33-T1S-R5W
DUCHESNE COUNTY, UTAH

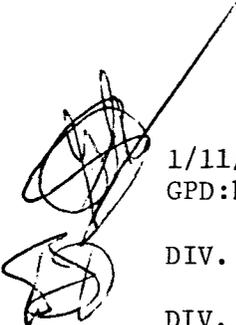
KB = 6920'
KB-GL = 26.5

CURRENT STATUS: Well dead. Last date of natural flow 11/12/71.

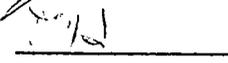
PROPOSED WORK:

1. MI&RUCR. Pump approx 75 bbls of fresh wtr down tubing. Remove Xmas tree and install and test BOP equipment and kill valve. Check annuli for gas.
2. Pickup tubing and jay off "on-off" seal connector at 11,280'. If necessary pump down annuli to control well.
3. Pull tubing, pull 5½" heat string.
4. Run tubing with "on-off" connector washover shoe. Jay onto "on-off" connector. Pull "FH" hydraulic set packer at 11,283' and sting out of Retrieva "DB" packer at 11,855'. Pull tubing, packer and 550' of tail.
5. Pickup Baker Retrieva "DB" packer retrieving tool and pull Retrieva "DB" packer with tail at 11,855'.
6. On electric line, set drillable BP at 11,832'.
7. Set drillable cement retainer at 11,700'. Prep to squeeze five perfs as follows: 11,791, 11,795, 11,808, 11,813, 11,817'.
8. Sting into retainer at 11,700'. Pressure up tubing. If cannot pump into perfs with 500 psi do not break down. If can pump into perfs or breakdown occurs at less than 500 psi, stage squeeze with 100 sx API Class "G" cmt, w/1½% CFR-2, and 0.4% HR-4. Trip out.
9. On electric line, set drillable cement retainer at approx 11,300'. Prep to sqz 20 perfs as follows: 11,478, 11,492, 11,498, 11,510, 11,513, 11,516, 11,539, 11,543, 11,555, 11,573, 11,577, 11,581, 11,586, 11,594, 11,597, 11,604, 11,624, 11,650, 11,662, 11,666' and 4 holes @ 11,358-359.
10. Sting into retainer at 11,300 and pressure tubing. If cannot pump into perfs at 500 psi do not break down; if can pump in or breakdown occurs at less than 500 psi, squeeze with 250 sx API Class "G" cmt with 1½% CFR-2 and 0.4% HR-4. WOC 12 hrs.
11. Drill out CR @ 11,300 and CO to CR @ 11,700. Pressure test sqz'd perfs to 500 psi. If test no good pull out and resqz. If test good, drill out CR @ 11,700 and CO to BP at 11,832. Pressure test sqz'd perfs to 500 psi. If test no good pull out and resqz. If test good drill out BP @ 11,832 and run bit to 12,000'. Prep to perf.
12. With 4" casing gun charged with 19 gram "Deep Penetrating" charges perforate one (1) hole at each of the following depths: 11,905, 11,909, 11,915, 11,922,

- 11,925, 11,928, 11,931 (Any company we normally use who can supply 19 gram DP charges in 4" OD Hollow gun is acceptable.)
13. On electric line run and set "Retrieva D" packer @ 11,832. Run 5½" heat string. Run production equipment as follows:
- a. Baker Model "C" plug receptacle w/plug in place.
 - b. 10' long x 2 7/8" O.D. non-perforated production tube.
 - c. Baker anchor-tubing seal assembly with 2 seal units.
 - d. Baker Model "FL" on-off seal connector with 2.250" plug receptacle without plug.
 - e. Approximately 11,800' 2 7/8" O.D. N-80 EUE tubing.
14. Production test. Depending on results of test a prognosis will be issued for subsequent remedial and/or stimulation work.

 1/11/72
GPD:kjl

DIV. O. E. 

DIV. P. E. 

C. A. Wischoff
Division Production Superintendent

CASING AND CEMENTING

Field: NO. UINTA BASIN

Well: Christensen 1-33A5

Shoe joint started in hole 5/1/71.

Ran 273 jts. 9 5/8" LT&C 47# casing to 11,100'.

<u>Jts.</u>	<u>Wt.</u>	<u>Grade</u>	<u>ST&C</u> <u>LT&C</u>	<u>New</u>	<u>Feet</u>	<u>From</u>	<u>To</u>
169	47#	P-110	LT&C	New	6951'	0	11,100'
104		S-95	ST&C	New	4146'		

273 Jts Total

DV Collar at 4,987'
Flat Collar at 10,894'
Shoe at 11,100'

Cementing:

Cemented by Halliburton in two stages. First stage cemented w/240 sx lite , 10% salt, 10% Gilsonite and 6% HR-4 followed by 250 sx Class "G" w/10% salt, 35% Silica flour. Displace w/300 psi min. 750 psi max. Plug down @ 5:30 p.m. w/2000 psi. Floats held. Lost approximately 300 bbls mud while circ. 2nd stage - waited one hour. Opened DV and cemented w/1090 sx Hal lite w/10% salt. Plug down @ 8:30 p.m. w/2550 psi. Min psi-250, max. psi-1950. Cement returned; then psi dropped to 450 w/36 bbls to displace annulus. Staged full; then disappeared.

CASING AND CEMENTING

Field: No. Uinta Basin

Well: Christiansen 1-33A5

Shoe joint started in hole at 7/6/71

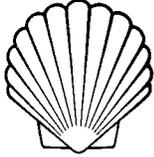
Ran 74 jts 7 5/8" SFJ-P, 33.7# liner to 13,806'

<u>Jts.</u>	<u>Wt.</u>	<u>Grade</u>	<u>ST&C</u> <u>LT&C</u>	<u>New</u>	<u>Feet</u>	<u>From</u>	<u>To</u>
74	33.7#	S-95	SFJ-P		3,037'	10,757'	13,806'

74 Jts. Total

Shoe at 13,806'

Cementing: Cmt'd by Hal w/75 sx pozmix "A" 75-25, 2% gel, slurry wt. - 13.5#/gal. Tailed in w/900 sx Class "G" w/10% salt, 30% silica flour @ 15.9#/gal slurry. Displaced w/318 bbls drlg mud. Good annular returns throughout cmt job. Bumped plug to 2,500 psi, held ok. Estimate 100' "G" cmt above liner hanger. Plug down 6 a.m. 7/6/71.



SHELL OIL COMPANY

1700 BROADWAY
DENVER, COLORADO 80202

February 14, 1972

Mr. Cleon B. Feight
State of Utah
Department of Natural Resources
Division of Oil and Gas
1588 West North Temple
Salt Lake City, Utah 84116

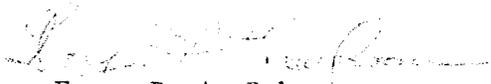
Dear Mr. Feight:

Recently the Division of Oil and Gas was shipped a number of electric logs from recent Shell wells in Utah. Of these, we would appreciate that two wells be held confidential. These confidential wells are:

1. Shell, Ute 1-18B5
Section 18, T 2 S, R 5 W, U.S.M.
2. Shell, Christensen 1-33A5
Section 33, T 1 S, R 5 W, U.S.M.

Thank you for your assistance in this matter.

Yours very truly,


For: D. A. Baker
Division Exploration Manager
Rocky Mountain Division

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

(See other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.

Patented

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Christensen

9. WELL NO.

L-33A5

10. FIELD AND POOL, OR WILDCAT

Altamont (Wildcat)

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

SE/4 NE/4 Section 33-T 1S-R 5W

12. COUNTY OR PARISH

Duchesne

13. STATE

Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

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

2. NAME OF OPERATOR
Shell Oil Company (Rocky Mountain Division Production)

3. ADDRESS OF OPERATOR
1700 Broadway, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 2033' FNL and 658' FEL Sec 33

At top prod. interval reported below

At total depth

14. PERMIT NO. 43-013-30054 DATE ISSUED 11-19-70

15. DATE SPUDDED 12-19-70 16. DATE T.D. REACHED 8-22-71 17. DATE COMPL. (Ready to prod.) 10-12-71 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 6893 GL, 6920 KB 19. ELEV. CASINGHEAD 27'

20. TOTAL DEPTH, MD & TVD 16,300 21. PLUG, BACK T.D., MD & TVD 13,740 (GIBP) 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY ROTARY TOOLS Total CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Green River-Wasatch 11,871-11,931 25. WAS DIRECTIONAL SURVEY MADE Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN DIL w/SP, Int BHGS/GR w/cal, Dipmeter, GR/FDC, SNP, FDC/CNL, Dialog, WL Therm Cond. 27. WAS WELL CORED Yes

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

CASINO SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20"	94#	189'	17 1/2"	335 sx	0
13 3/8"	68#	6810'	17 1/2"	2760 sx	0
9 5/8"	47#	11,100'	12 1/4"	1580 sx	0

29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
7 5/8"	10,757	13,806	975				

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

33.* PRODUCTION
DATE FIRST PRODUCTION 10-12-71 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Pumping WELL STATUS (Producing or shut-in) Producing

DATE OF TEST 12-7-71 HOURS TESTED 24 CHOKE SIZE 1" PROD'N. FOR TEST PERIOD 878 OIL—BBL. 878 GAS—MCF. 492 WATER—BBL. 339 GAS-OIL RATIO 560

FLOW. TUBING PRESS. 90 CASING PRESSURE CALCULATED 24-HOUR RATE 878 OIL—BBL. 878 GAS—MCF. 492 WATER—BBL. 339 OIL GRAVITY-API (CORR.) 40.8°

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

35. LIST OF ATTACHMENTS
Well Log and History, Csg & Gmtg Detail

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

SIGNED J.C. Howell TITLE Division Operations Engineer DATE January 20, 1972

P. 13

UTAH

NO. UINTA BASIN

Shell-Christensen
1-33A5
(WC) Moran
14,000' Wasatch Test

"FR" RURT.

Located 2033' FNL and 658' FEL, Section 33-T1S-R5W,
Duchesne County, Utah.

Elev: 6893.2 GL (Ungraded)

14,000' Wasatch Test

Shell Working Interest - 100%

Drilling Contractor - Moran Drilling Company

This well is designed to evaluate the Green River-Wasatch
prospects on the northern flank of our No. Uinta Basin
acreage block. Well is designed to be drilled to
Cretaceous at approx 19,000' if desired.

Ran and cemented 31' 26" conductor pipe at GL w/4 yds
ready mix.

Shell-Christensen
1-33A5
(WC) Moran
14,000' Wasatch Test

RURT. DEC 11 1970

Shell-Christensen
1-33A5
(WC) Moran
14,000' Wasatch Test

RURT.

DEC 14 1970

Shell-Christensen
1-33A5
(WC) Moran
14,000' Wasatch Test

RURT. DEC 15 1970

Shell-Christensen
1-33A5
(WC) Moran
14,000' Wasatch Test

RURT; WO boiler parts. DEC 16 1970

Shell-Christensen
1-33A5
(WC) Moran
14,000' Wasatch Test

RURT. DEC 17 1970

Shell-Christensen
1-33A5
(WC) Moran
14,000' Wasatch Test

RURT; WO boiler parts. DEC 18 1970

Shell-Christensen
1-33A5
(WC) Moran
14,000' Wasatch Test

217/140/3/217. WOC. Dev: $\frac{1}{4}^{\circ}$ at 85' and 215'.
Spudded 6 a.m. 12-19-70. Ran and cmt 7 jts (221') new
USS 20" 94# 8rd thd csg at 189' w/335 sx Type "G" cmt.
Piug down 2:45 a.m. 12-21-70. Circ approx 50 sx cmt
2 p.m. Spudded 17 $\frac{1}{2}$ " hole under 31' 26" conductor pipe.
Reamed 6 3/4 hrs. DEC 21 1970

Shell-Christensen
1-33A5
(WC) Moran
14,000' Wasatch Test

300/140/4/83. Drilling.
Began drlg cmt 12 midnight at 168'. WOC 21 hrs.
Mud: water DEC 22 1970

Shell-Christensen
1-33A5
(WC) Moran
14,000' Wasatch Test
20" csg at 189'

812/140/5/512. Drilling. Dev: $\frac{1}{2}^{\circ}$ at 425 and 680'.
Lost circ at 692' - 500 bbls; at 791' - 500 bbls.
1 $\frac{1}{2}$ hrs total time lost due to lost circ.
Mud: water DEC 23 1970

Shell-Christensen
1-33A5
(WC) Moran
14,000' Wasatch Test
20" csg at 189'

1018/140/6/206. Drilling. Dev: 1 $\frac{1}{2}^{\circ}$ at 930 and 1 $^{\circ}$ at 1018.
Lost circ at 829 - 300 bbls, at 891 - 200 bbls, at 911 -
250 bbls. Total time lost - 5 $\frac{1}{2}$ hrs.
Bit #2 17 $\frac{1}{2}$ " DTJ went in at 4:30 - out at 1018, 588' in
26 $\frac{1}{4}$ hrs. T-6, B-4 DEC 24 1970
Bit #3 17 $\frac{1}{2}$ " DTJ went in at 1018. Drilling.
Mud: 9# (Pump press - 1200)

Shell-Christensen
1-33A5
(WC) Moran
14,000' Wasatch Test
20" csg at 189'

1805/140/10/787. Drilling. Dev: 1 $^{\circ}$ at 1436, 1 3/4 $^{\circ}$ at
1500 and 1 $\frac{1}{4}^{\circ}$ at 1780.
Lost approx 2200 bbls mud at 1249'.
Mud: 8.6 x 44 x 16 (LCM 20%) DEC 28 1970

Shell-Christensen
1-33A5
(WC) Moran
14,000' Wasatch Test
20" csg at 189'

1940/140/11/135. Drilling. Dev: 1 $\frac{1}{4}^{\circ}$ at 1853.
Bit #6 OSC3AJ out at 1895 - 107' in 14 hrs.
T-6, B-5.
Pump press - 1500#, 53 SPM. DEC 29 1970
Mud: 9.1 x 48 x 17

Shell-Christensen
1-33A5
(WC) Moran
14,000' Wasatch Test
20" csg at 189'

2007/140/12/67. Mixing lost circ material. Dev: 1 $^{\circ}$
at 1950 and 1990.
Lost circ at 2007 - approx 200 bbls.
Pump - 62 SPM - 7 $\frac{1}{2}$ " x 16" 2,000 psi.
3 - 14's nozzle.
Bit weight - 60,000#, 125 RPM
Bit #7 17 $\frac{1}{2}$ " YT3AJ, in 1895 out 1950 - 55' 7 $\frac{1}{2}$ hrs.
T-4, B-4, $\frac{1}{2}$ " out.
Bit #8 17 $\frac{1}{2}$ " D-2 in 1950, out 1995 - 45' 9 $\frac{1}{2}$ hrs.
T-6, B-3, I.
Bit #9 17 $\frac{1}{2}$ " W-7 in 1995.
Mud: 9 x 38 DEC 30 1970

Shell-Christensen
 1-33A5
 (WC) Moran
 14,000' Wasatch Test
 20" csg at 189'

2098/140/13/91. Tripping. Dev: $1\frac{1}{2}^{\circ}$ at 2095.
 Lost 1200 bbls mud at 1207 - $7\frac{1}{2}$ hrs time lost.
 (Total bbls lost at 2007 - 1400 bbls)
 Mud: 9 x 40 DEC 31 1970

Shell-Christensen
 1-33A5
 (WC) Moran
 14,000' Wasatch Test
 20" Csg at 189'

2551/140/17/453. Mixing LCM. Dev: 1° @ 2165, $3/4^{\circ}$ @ 2245.
 LCM @ 2551 - approx 250 bbls in $2\frac{1}{2}$ hrs.
 $12\frac{1}{2}$ hrs drlg sd and shale.
 Mud: 9 x 36 (pmpg in 30% LCM) JAN 4 1971

Shell-Christensen
 No. 1-33A5
 (WC) Moran
 14,000' Wasatch Test
 20" Csg at 189'

2655/140/18/104. Drilling. Dev: $1\frac{1}{2}^{\circ}$ @ 2600.
 Regained circ at 2551 at 1 p.m. Total mud lost - 750 bbls.
 Total time lost - $5\frac{1}{2}$ hrs 1/4/71. Lost circ at 2586; 300 bbls
 w/ $4\frac{1}{2}$ hrs time lost. JAN 5 1971
 Mud: 9 x 40 (LCM 35%).

Shell-Christensen
 No. 1-33A5
 (WC) Moran
 14,000' Wasatch Test
 20" Csg at 189'

2840/140/19/185. Drilling.
 Mud: 9.1 x 38 (LCM 12%) JAN 6 1971

Shell-Christensen
 No. 1-33A5
 (WC) Moran
 14,000' Wasatch Test
 20" Csg at 189'

2884/140/20/44. Tripping.
 Lost circ at 2856 - approx 1800 bbls in 12 hrs.
 Mud: 9 x 43 (LCM 20%). JAN 7 1971

Shell-Christensen
 No. 1-33A5
 (WC) Moran
 14,000' Wasatch Test
 20" Csg at 189'

3025/140/21/141. Drilling. Dev: $3/4^{\circ}$ @ 2870.
 Mud: 9 x 41 (LCM 20%). JAN 8 1971

Shell-Christensen
 No. 1-33A5
 (WC) Moran
 14,000' Wasatch Test
 20" Csg at 189'

3256/140/24/231. Drilling. Dev: 1° @ 3030, and
 $1\frac{1}{2}^{\circ}$ @ 3211.
 Mud gradient: .480. JAN 11 1971
 Mud: 9.1 x 40 x 12.6 (chlorides 250) (LCM 20%).

Shell-Christensen
 No. 1-33A5
 (WC) Moran
 14,000' Wasatch Test
 20" Csg at 189'

3396/140/25/140. Drilling. Dev: $1\frac{1}{2}^{\circ}$ @ 3310.
 $2\frac{1}{2}$ hrs lost returns at 3260. At 7:25 a.m. 1/11/71
 lost approx 300 bbls.
 Mud gradient .490 JAN 12 1971
 Mud: 9.4 x 43 x 11.4 (ch 280) (LCM 20%).

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
20" Csg at 189'

3529/140/26/133. Drilling. Dev: $\frac{1}{2}^{\circ}$ @ 3445.
Mud: 9.1 x 42 x 11.4 (LCM 20%). JAN 13 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
20" Csg at 189'

3680/140/27/151. Drilling. Dev: $\frac{3}{4}^{\circ}$ @ 3665.
Mud: 9.1 x 40 x 9 (LCM 18%). JAN 14 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
20" Csg at 189'

3861/140/28/181. Tripping.
Mud: 9.3 x 44 x 10.2 (LCM 18%) JAN 15 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
20" csg at 189'

4073/140/31/212. Drilling. Dev: 1° at 3923.
Twisted off reamer 1 p.m. 1/16/71 @ 3949 leaving (2)
 $9\frac{1}{2}$ " DC's, 1 junk sub, shock sub, and bit in hole. Top
of fish @ 3883'. WO fishing tools 12 hrs. Picked up
overshot, $9\frac{1}{2}$ " slips, bumper sub and jars. Went in hole
and recovered fish. JAN 18 1971
Mud: 9.1 x 40 x 10 (LCM 10%)

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
20" csg at 189'

4200/140/32/127. Drilling. Dev: 1° at 4080.
Mud: 9.2 x 42 x 8.6 (LCM 10%) JAN 19 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
20" csg at 189'

4270/140/33/70. Drilling. Dev: $\frac{3}{4}^{\circ}$ at 4246.
Magnaflexed BH equip. Found three cracked pins.
Mud: 9.3 x 42 x 10.4 (LCM 0) JAN 20 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test

4448/140/34/178. Tripping. Dev: 1° at 4445.
Mud: 9.2 x 47 x 8.6 JAN 21 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
20" csg at 189'

4628/140/35/180. Tripping.
Mud: 9.2 x 41 x 9.1 JAN 22 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
20" Csg at 189'

5042/140/38/414. Drilling. Dev: $\frac{1}{4}^{\circ}$ @ 4795.
Lost circ at 4970 - 250 bbls in 1 3/4 hrs. Lost circ
after trip.
Mud: 9.3 x 43 x 7.9.

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
20" Csg at 189'

5140/140/39/98. Drilling. Dev: $\frac{1}{4}^{\circ}$ @ 5135.
Lost circ at 5069' - approx 400 bbls. Time lost 1 3/4 hrs.
Mud: 9.1 x 43 x 8.4 (LCM trc). JAN 2 6 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
20" Csg at 189'

5258/140/40/118. Mixing LCM.
Lost circ from 5165-5170 - 350 bbls and 1 1/2 hrs time lost.
Lost circ at 5258' - 400 bbls and 1 1/2 hrs time lost.
Mud: 9.2 x 45 x 8.4 JAN 2 7 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
20" Csg at 189'

5340/140/41/82. Drilling.
Lost circ at 5258. Lost total 800 BF - 2 hrs time lost.
Mud: 9.1 x 44 x 7.8 (LCM trc) JAN 2 8 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
20" Csg at 189'

5420/140/42/80. Tripping.
2 1/2 hrs lost circ at 5391 - 450 bbls.
Mud: 9.2 x 43 x 8. JAN 2 9 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
20" Csg at 189'

5720/140/45/300. Tripping. Dev: $\frac{1}{4}^{\circ}$ @ 5620.
Mud: 9.1 x 45 x 10 FEB 1 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
20" Csg at 189'

5776/140/46/56. Tripping out for fishing tools.
15 1/2 hrs drilling, 8 hrs tripping, 3/4 hrs down time.
Broke pin from crossover sub on top of 3rd DC.
Mud gradient .47 FEB 2 1971
Mud: 9.2 x 43 x 7.8.

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
20" Csg at 189'

5776/140/47/0. Tripping in w/bit.
Broke pin #4 DC on crossover sub. Tripped in w/Bowen overshot
dressed w/8 1/2" basket grapple. Rec'd fish. Magnafluxed DC
strings. Found two string reamers w/cracked pin, btm hole DC
w/cracked box, one 7" DC w/cracked pin, and one 7" DC w/
cracked box.
Mud gradient - .47 FEB 3 1971
Mud: 9.2 x 42 x 8 (chl 300) (LCM 2%) (Oil nil).

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
20" Csg at 189'

5872/140/48/96. Drilling. FEB 4 1971
Mud: 9.1 x 45 x 6.4

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
20" Csg at 189'

5920/140/49/48. Drilling. Dev: $\frac{1}{2}^{\circ}$ @ 5905.
15 $\frac{1}{4}$ hrs drlg, 5 hrs tripping, $\frac{1}{2}$ hr survey, $\frac{1}{2}$ hr circ,
low pump press, 3 hrs Continental-Emsco checking swivel.
Mud: 9.1 x 47 x 8.4 (LCM 3%). FEB 5 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
20" Csg at 189'

6150/140/52/230. Drilling. FEB 8 1971
Mud gradient - .47
Mud: 9.2 x 41 x 10.2 (LCM 3%).

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
20" Csg at 189'

6240/140/53/90. Drilling. Dev: 1° @ 6160.
Mud: 9.2 x 40 x 12 (LCM 3%). FEB 9 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
20" Csg at 189'

6312/140/54/72. Drilling. FEB 10 1971
Mud: 9.3 x 40 x 14 (LCM 1 $\frac{1}{2}$ %).

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
20" Csg at 189'

6360/140/55/48. Drilling. Dev: $\frac{3}{4}^{\circ}$ @ 6312.
Mud: 9.2 x 39 x 12.2 (LCM trc). FEB 11 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
20" Csg at 189'

6421/140/56/61. Drilling. FEB 12 1971
Mud: 9.2 x 38 x 12.8 (LCM trc).

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
20" csg at 189'

6558/140/59/137. Drilling. Dev: $\frac{3}{4}^{\circ}$ at 6495.
Lost circ at 6482. - approx 2050 bbls, 14 hrs time lost.
Mud: 9.1 x 44 x 9.6 (LCM 12%) (P.V. 14) (Y.P. 4)
(gels 1&4) (ph 9.5) (fc 2/32) (Sd 1/8%) FEB 16 1971

Shell-Christensen
 No. 1-33A5
 (WC) Moran
 14,000' Wasatch Test
 20" Csg at 189'

6599/140/60/41. Drilling.
 TENTATIVE SAMPLE TOP TGR₁ 6380.
 Mud: 9.1 x 38 x 7.8 (LCM 9%). FEB 17 1971

Shell-Christensen
 No. 1-33A5
 (WC) Moran
 14,000' Wasatch Test
 20" Csg at 189'

6636/140/61/37. Drilling.
 Mud: 9.2 x 38 x 10.4 (LCM 10%). FEB 18 1971

Shell-Christensen
 No. 1-33A5
 (WC) Moran
 14,000' Wasatch Test
 20" Csg at 189'

6660/140/62/24. Drilling.
 Mud: 9.1 x 39 x 9.9 (LCM 10%). FEB 19 1971

Shell-Christensen
 No. 1-33A5
 (WC) Moran
 14,000' Wasatch Test
 20" Csg at 189'

6791/140/65/131. Tripping out for logs.
 Mud: 9.1 x 43 x 8 (LCM 12%). FEB 22 1971

Shell-Christensen
 No. 1-33A5
 (WC) Moran
 14,000' Wasatch Test
 20" Csg at 189'

6810/140/66/19. Tripping out for caliper. Dev: 3/4° @ 6785.
 Ran DIL w/SP and Int BHCS/GR. Caliper malfunctioned.
 Tripped in, drld 19' to 6810'. Circ and pulled out to
 rerun caliper.
 Mud gradient - .47 FEB 23 1971
 Mud: 9.2 x 45 x 8.4 (LCM 10%).

Shell-Christensen
 No. 1-33A5
 (WC) Moran
 14,000' Wasatch Test
 20" Csg at 189'

6810/140/67/0. Tripping out for 13 3/8" Csg.
 Mud gradient - .47 FEB 24 1971
 Mud: 9.2 x 44 x 8 (LCM 10%)

Shell-Christensen
 No. 1-33A5
 (WC) Moran
 14,000' Wasatch Test
 13 3/8" csg at 6810'

6810/140/68/0 Circ through DV collar. Ran and cem 162 jts
 (6815') 68# S-80 13 3/8" csg w/shoe at 6810, differential
 fillup collar at 6767, DV collar at 1007. Bumped plug w/
 2,000 psi, held ok. CIP 3:05 AM. Dropped bomb and opened
 DV collar 3:45 AM. Cmt information to be reported on
 tomorrow's wire. FEB 25 1971

Shell-Christensen 6810/140/69/0. WOC.
 No. 1-33A5 Cmt 1st stage at 6810' KB w/985 sx 60-40 poz "A", 2% gel,
 (WC) Moran followed by 300 sx Neat Type "G" cmt. KB-GL=26.50'.
 14,000' Wasatch Test Displaced w/rig pump at 10 B/M. Pumped plug w/2000 psi.
 13 3/8" Csg at 6810' Bled off 10 bbls. Float held ok. Circ four hrs. 20
 bbls wtr ahead. Cmt'd 2nd stage through DV Collar at 1008
 w/1475 sx RFC cmt, 8% D-53 & 3% CaCl₂. Lost returns w/
 approx 150 bbls slurry out DV tool. Displaced w/rig
 pump. Plug down 9:15 a.m. 2/25/71 w/2500 psi. DV held ok.
 1 centralizer at shoe, 1 above float, and 1 every other joint.
 Total 7 on bottom and 1 centralizer below DV tool and 2 Bkr
 metal petal baskets under DV tool. First outside job - Ran
 570' 1 1/4" tbg and mixed 150 sx Type "G" cmt, 6% gel, 3% CaCl₂,
 and 1/4#/sx Flocele. No returns. Job complete 10 p.m. 2/25/71.
 Second outside job - ran 340' 1 1/4" tbg and mixed 200 sx Type
 "G", 6% gel, 3% CaCl₂, and 1/4#/sx Flocele. Circ'd cmt
 (approx 10 bbls). Job complete 2:30 a.m. 2/26/71.
 Mud: 9.2 x 45 x 8.4 (LCM 10%). FEB 26 1971

Shell-Christensen 6867/140/72/57. Drlg.
 No. 1-33A5 Tested csghd to 2,000 psi, ok. Tested blind rams through
 (WC) Moran kill line to 2,000 psi, ok. Tested BOP and chk manifold
 14,000' Wasatch Test to 2,000 psi. Drld DV float collar and guide shoe and began
 13 3/8" Csg at 6810' drlg under 13 3/8" csg at 9:15 p.m. 2/28/71.
 Mud: 8.4 x 32. MAR 1 1971

Shell-Christensen 6910/140/73/43. Drilling.
 No. 1-33A5 Ran gyroscopic multishot survey (Sperry Sun).
 (WC) Moran Mud: 8.6 x 34 x 34.2 MAR 2 1971
 14,000' Wasatch Test
 13 3/8" Csg at 6810'

Shell-Christensen 7011/140/74/101. Drilling. MAR 3 1971
 No. 1-33A5 Mud: 8.7 x 34 x 14.4
 (WC) Moran
 14,000' Wasatch Test
 13 3/8" csg at 6810'

Shell-Christensen 7106/140/75/95. Drilling.
 No. 1-33A5 Mud: 8.7 x 34 x 11.8 MAR 4 1971
 (WC) Moran
 14,000' Wasatch Test
 13 3/8" Csg at 6810'

Shell-Christensen 7188/140/74/82. Drilling.
 No. 1-33A5 Mud: 8.7 x 40 x 13.2 MAR 5 1971
 (WC) Moran
 14,000' Wasatch Test
 13 3/8" Csg at 6810'

Shell-Christensen 7408/140/79/220. Drilling. Dev: $\frac{1}{2}^{\circ}$ at 7275.
No. 1-33A5 Mud: 8.7 x 36 x 11.2 MAR 8 1971
(WC) Moran
14,000' Wasatch Test
13 3/8" csg at 6810'

Shell-Christensen 7558/140/80/150. Drilling.
No. 1-33A5 Mud: 8.6 x 36 x 10.6 MAR 9 1971
(WC) Moran
14,000' Wasatch Test
13 3/8" csg at 6810'

Shell-Christensen 7687/140/81/129. Drilling.
No. 1-33A5 Mud: 8.8 x 40 x 10.4 MAR 10 1971
(WC) Moran
14,000' Wasatch Test
13 3/8" csg at 6810'

Shell-Christensen 7805/140/82/118. Drilling. Dev: $\frac{3}{4}^{\circ}$ at 7785.
No. 1-33A5 Mud: 8.7 x 36 MAR 11 1971
(WC) Moran
14,000' Wasatch Test
13 3/8" csg at 6810'

Shell-Christensen 7917/140/83/112. Drilling. Dev: $\frac{3}{4}^{\circ}$ at 7785. south 16 east.
No. 1-33A5 Mud: 8.7 x 36 x 11.4 MAR 12 1971
(WC) Moran
14,000' Wasatch Test
13 3/8" csg at 6810'

Shell-Christensen 8204/140/86/287. Drilling.
No. 1-33A5 Mud: 8.7 x 36 x 9. MAR 15 1971
(WC) Moran
14,000' Wasatch Test
13 3/8" Csg at 6810'

Shell-Christensen 8358/140/87/154. Drilling.
No. 1-33A5 Mud: 8.7 x 36 x 10 MAR 16 1971
(WC) Moran
14,000' Wasatch Test
13 3/8" Csg at 6810'

Shell-Christensen 8451/140/88/93. Tripping.
No. 1-33A5 Mud: 8.7 x 38 x 12. MAR 17 1971
(WC) Moran
14,000' Wasatch Test
13 3/8" Csg at 6810'

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
13 3/8" Csg at 6810'

8553/140/89/102. Drilling.
Mud: 8.7 x 38 x 12 MAR 18 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
13 3/8" Csg at 6810'

8604/140/90/51. Drilling. Dev: 3/4° @ 8580 S65E corrected.
Mud: 8.7 x 39 x 11.2 MAR 19 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
13 3/8" Csg at 6810'

8914/140/93/310. Tripping. Dev: 3/4° @ 8910 South 7° East.
Mud: 8.8 x 40 x 11.2

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
13 3/8" Csg at 6810'

8971/140/94/57. Drlg.
Mud: 8.8 x 37 x 12. MAR 23 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
13 3/8" csg at 6810'

9028/140/95/57. Drilling.
Elev: 6919 DF, 6894 GL
Mud: 8.8 x 37 x 11 MAR 24 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
13 3/8" Csg at 6810'

9088/140/96/60. Tripping.
Lost 100 bbls mud at 9082.
Mud: 8.8 x 37 x 10. MAR 25 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
13 3/8" Csg at 6810'

9188/140/97/100. Drilling.
Mud: 8.8 x 38 x 8.0 MAR 26 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
13 3/8" Csg at 6810'

9570/140/100/382. Drilling. Lost approx 200 bbls mud
from 9188-9321 and 200 bbls mud from 9322-9430.
Mud: 8.8 x 36 x 14. MAR 29 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
13 3/8" Csg at 6810'

9710/140/101/140. Drilling.
Lost approx 80 bbls mud at 9583, 45 bbls at 9598, and
approx 200 bbls from 9670-9690.
Mud: 8.7 x 38 x 12.8 MAR 30 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
13 3/8" Csg at 6810'

9779/140/102/69. Drilling. Dev: 1/2° @ 9750 N15°W.
Lost 80 bbls mud at 9738 and 400 bbls at 9756.
Mud: 8.7 x 38 x 14. MAR 31 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
13 3/8" Csg at 6810'

9900/140/103/121. Drilling. APR 1 1971
Mud: 8.6 x 38 x 12.4 (chl 300)

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
13 3/8" Csg at 6810'

9990/140/104/90. Drilling.
Lost 400 bbls mud at 9960 and 75 bbls at 9964.
Mud: 8.6 x 45 x 10 (chl 300 ppm) APR 2 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
13 3/8" Csg at 6810'

10,272/140/107/282. Drilling.
Had no mud loss last 3 days. APR 5 1971
Mud: 8.7 x 37 x 10.8 (LCM 2%).

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
13 3/8" Csg at 6810'

10,310/140/108/38. Drlg. Dev: 10,275 1°S25W
Pulled wire bushing and installed test plug. Tested
BOP stack and manifold to 2500 psi, ok.
SLM 10,281 = 10,280 (no correction) APR 6 1971
Mud: 8.7 x 40 x 11.2 (LCM 2%).

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
13 3/8" Csg at 6810'

10,444/140/109/134. Drilling. APR 7 1971
Mud: 8.8 x 40 x 13.8 (LCM 3%).

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
13 3/8" Csg at 6810'

10,570/140/110/126. Drilling.
No fluid loss last 25 hrs. APR 8 1971
Mud: 8.9 x 38 x 15.4 (LCM 4%).

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
13 3/8" Csg at 6810'

10,823/140/115/253. Tripping. Dev: 1 1/2° @ 10,800, observed S20°E - corrected S5°E.
Magnafluxed btm hole assembly. Picked up 22 jts DP. Circ'd at 7000 and 9400. Reamed tight hole from 9994-10,192. Magnafluxed DC's and btm hole assembly; found (2) 7 5/8" pins cracked and 6 5/8" crossover sub w/90 thrds pulled. Lost 100 bbls mud while mixing wt material at 10,620. Lost returns at 10,657 - 520 bbls mud 7 hrs time lost. Lost 80 bbls mud while drlg from 10,722-10,726. Lost 20 bbls while drlg at 10,793, 80 bbls while drlg at 10,810, and lost returns at 10,823 - 130 bbls 3 hrs time lost. Lost 600 bbls while reaming from 9994-10,192 w/2 3/4 hrs time lost.
Mud: 8.9 x 52 x 8 (LCM 12%) (sd trc). APR 12 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
13 3/8" Csg at 6810'

10,930/140/116/107. Drilling.
Reamed 3/4 hr from 10,788-10,823. Lost 40 bbls mud from 10,893-10,897.
Mud: (gradient .463) 8.9 x 43 x 8.4 (LCM 8%). APR 13 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
13 3/8" Csg at 6810'

11,023/140/117/93. Mixing Mud and LCM.
Lost 25 bbls mud at 10,963, 20 bbls mud at 11,002, 300 bbls mud from 11,011-11,019. Lost 95 bbls mud and lost full returns from 11,022-11,023. Pulled 20 stds out of hole - 17 stds were tight. Lost 190 bbls mud at 11,023 for total of 630 bbls mud lost.
Mud: (gradient .474) 9.1 x 44 x 8.2 (LCM 9%). APR 14 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
13 3/8" Csg at 6810'

11,023/140/118/0. Tripping out for plugged bit.
Regained circ and came out of hole to change btm hole assembly. Laid down 15 (7") drill collars and 6 jts of DP. Picked up 18 jts of hvy wt DP and jars. Tripped back in hole. Broke circ at 7770, 6839, and 9308. Reamed bridge from 9315-9365 and plugged bit.
Mud: (gradient .468) 9 x 52 x 7.6 (LCM 14%). APR 15 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
13 3/8" Csg at 6810'

11,023/140/119/0. Reaming and washing to btm @ 9979.
Made trip out of hole. Rig repair 4 hrs. Went back in hole w/bit and reamed from 9268-9979 in 11 3/4 hrs. Did not raise any circulation. APR 16 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
13 3/8" Csg at 6810'

11,023/140/122/0. Mixing Diaseal "M" Plug #2.
Reamed and washed from 10,125-11,023. Laid down BHA and
found reamer cutter in hole. Cleaned pit and mixed Diaseal
"M" pill.

#1 squeeze pumped 20 bbls mud in formation - 0 psi - waited
15 mins.

#2 squeeze same as #1 - 0 psi - waited 2 hrs.

#3 squeeze 60 bbls at max 450 psi - waited 4 hrs.

#4 squeeze 60 bbls at max 375 psi.

Mixed Diaseal Plug #1 - 291 bbls, 300 sx Diaseal "M" w/20%
LCM. Tripped in hole w/openended DP to 10,500'. Spotted
plug and pulled to 6800'. Pumped mud in annulus - hole taking
mud slowly. Pumped 10 bbls at 4 B/M at 200 psi, to zero
at end (Hal). Pumped 20 bbls at 1 1/2-4 B/M at 225 psi max,
dropped to 125 psi at SI, to 0 in 15 min. APR 19 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
13 3/8" Csg at 6810'

11,023/140/123/0. Pumping plug.
Mixed Diaseal Plug #2 - 380 bbls. Went in hole to 9054'
w/openended DP. Fluid at 139'. Hole circ w/50 bbls.

Plug #2 - 300 sx Diaseal "M" w/20# per bbl LCM, 9.3 wt,
100 visc. Pumped in 110 bbls at 2 B/M at 250 psi, to 0
psi at end. Pmpd 40 bbls at same rate - held 175 psi.
Pmpd 25 bbls at same rate - held 175 psi. Waited six hrs
110 psi. Pmpd 100 bbls at 2 B/M at 275 psi, 176 psi at
end & holding, after 6 hrs, had 50 psi. APR 20 1971
Mud: (gradient .478) 9.1 x 65 x 7.2.

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
13 3/8" Csg at 6810'

11,023/140/124/0. Washing to btm at 9500'.
Pumped 50 bbls Plug #2 w/max psi of 375, held 200 psi.
Pumped additional 50 bbls w/max of 375 psi, min 300 psi,
holding 190 psi. SI 6 hrs. 0 psi. Pulled out of hole
& picked up drlg assembly. Circ at 4500'. Circ at 7,000'
and worked on bridge at 9200'. APR 21 1971
Mud: (gradient .478) 9 x 62 x 6.8 (LCM 12%).

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
13 3/8" Csg at 6810'

11,023/140/125/0. Circ @ 11,023. APR 22 1971
Washing and reaming 9500 to 11,023.
Mud: (gradient .474) 9.1 x 62 x 5.8 (LCM 15%).

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
13 3/8" Csg at 6810'

11,025/140/126/2. Tripping for basket.
Pulled bit. Went in hole w/ 6 - 7 1/4" DC's and 11 3/8" Bowen
basket to fish for string reamer cutter. Washed 50' to btm.
Cut 2' w/basket in 6 hrs. Raised mud wt from 9.1 to 9.3.
Lost 150 bbls mud. APR 23 1971
Mud: (gradient .484) 9.3 x 65 x 8.0 (LCM 12%).

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
13 3/8" csg at 6810'

11,076/140/128/51. Drilling.
Tripped out w/Bowen junk basket; did not recover reamer
cutter. Cutter had scarred outside of junk basket. Mixed
pit of mud. Went in hole w/8 3/4" junk sub and 11 3/4"
mill. Circ at 6200', 6800', and 9000' losing 20 bbls mud
per hr. watering back. Milled on reamer cutter and reamed
bridges at 9200', 10,180', and 10,903'. Circ at 7000',
laid down Monel DC's and shock sub w/no mud loss. Tripped
and reamed to bottom at 11,026'. Made short trip at
11,056 and cleaned 19' - tight from 11,056-11,068. Worked
out tight spot at 11,039 while drlg.
Mud: (gradient .474) 9.1 x 66 x 7.4 (LCM 16%) APR 2 6 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
13 3/8" csg at 6810'

11,100/140/129/24. Tripping for logs.
Made short trips at 11,079, 11,087, 11,096 and 11,100. Circ
for logs.
Mud: (gradient .473) 9.1 x 73 x 6.2 (LCM 15%) APR 2 7 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
13 3/8" csg at 6810'

11,100/140/130/0. Logging.
Started logging at 7 a.m. 4/27/71. Ran logs as follows:
GR/BHC Sonic/Cal, Dipmeter, DIL/SP, GR/FDC, & Schlumberger
core slicer. APR 2 8 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
13 3/8" csg at 6810'

11,100/140/131/0. Reaming bridge at 10,830.
Reamed bridges from 10,115'-10,342', 10,356'-10,418' and
10,745'-10,800'. Lost 160 bbls mud from 10,356-10,418'.
Mud: (gradient .473) 9.1 x 57 x 7.0 (LCM 14%) APR 2 9 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
13 3/8" csg at 6810'

11,100/140/132/0. Running 9 5/8" casing.
Reamed from 10,830-11,100. Circ and cond hole to run
9 5/8" casing.
Mud: (gradient .473) 9.1 x 74 x 6.3 (LCM 11%) APR 3 0 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" Csg @ 11,100'

11,100/140/135/0. WOC. Nippling up.
Ran and cmt 273 jts (11,097') 9 5/8" csg (169 jts (6951')
new 47# P-110 LT&C and 104 jts (4146') A. O. Smith
new S-95 ST&C) at 11,100'. Cmt'd 1st stage w/240
sx Hal lite containing 10% salt, 10% Gilsonite and
.6% HR-4 followed by 250 sx Type "G" w/10% salt,
35% silica flour. Displaced w/300# min, 750# max.
Plug down 5:30 p.m. 5/1/71 w/2,000 psi, float held. Lost
approx 300 bbls mud while circ. Cmt 2nd stage after opening
DV w/1090 sx Hal lite, 10% salt. Plug down 8:30 a.m. 5/1/71
w/2,550 psi, min 250 psi, max 1950. Cmt returned. DV top
4987', float at 10,894. MAY 3 1971
No mud details.

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" Csg at 11,100'

11,100/140/136/0. Drilling cmt at 11,017.
Tested blind pipe rams, Kelly cock, and chk manifold to
3500 psi and hydril to 2500 psi, ok. MAY 4 1971
Tested DV collar to 3500 psi, ok.

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" csg at 11,100'

11,181/140/137/81. Running csg Caliper log.
Mud: (gradient .485) 9.3+ x 48 x 6.2. MAY 5 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" Csg at 11,100'

11,257/140/138/76. Drilling. MAY 6 1971
Mud: (gradient .494) 9.5 x 47 x 6.0.

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" Csg at 11,100'

11,340/140/139/83. Drilling.
Mud: 9.9 x 49 x 7.6. MAY 7 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" Csg at 11,100'

11,616/140/142/276. Drilling.
Mud: (gradient .531) 10.2 x 50 x 6.8. MAY 10 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" Csg at 11,100'

11,691/140/143/75. Drilling.
Drilling break from 11,618' to 11,631' - dead oil stain and
no gas. Lost 150 bbls mud @ 11,638' and 20 bbls mud @ 11,665'.
Mud: (gradient .546) 10.5 x 49 x 6.0. MAY 11 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" Csg at 11,100'

11,705/140/144/14. Running DST No. 1 ^{11,473-11,705} ~~11,705-11,743~~.
Circ for DST No. 1. Lost 250 bbls mud. Regained circ. DST
tool opened 6:55 a.m. 5/12/71.
Mud: (gradient .550) 10.5 x 50 x 5.8. MAY 12 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" Csg at 11,100'

11,927/140/150/52. Coring on Core No. 3.
Core No. 2 11,874-11,927 Cut and rec'd 53'.
11,874-76 Shale, dk gry, calc, silty in part.
11,876-78 Ls, dk gry, argil, ostracods, very dull yellow
nat fluor, poor pale cut fluor.
11,878-90 Sh, dk gry, hd, calc, ostracods, trc OS on
vert fracs, fair gold nat fluor, poor pale cut
fluor.
11,890-913 Sh, dk gry-blk, hd, sli calc, silty in part.
11,913-17.7 Ss, lt brn, f gr, subang, calc, tite, hd,
brn OS on open (?) vert fracs, fair gold
nat fluor, poor slow yellow cut fluor.
11,917.7-18.5 Ss, lt gry, f gr, calc, hd and tite, burrowed
and churned.
11,918.5-20 Sh, gry, sli calc, sdy, burrowed.
11,920-25 Ss, lt gry, f gr, qtz and calcite cmt, hd &
tite, spty brn OS, fair yellow nat fluor, very
poor cut fluor.
11,925-27 Sh, blk, hd, silty, sli calc. MAY 18 1971
Mud: (gradient .509) 9.8 x 48 x 5.3.

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" Csg at 11,100'

11,949/140/151/22. Coring on Core No. 3.
Mud: (gradient .515) 9.9 x 47 x 6. MAY 19 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" Csg at 11,100'

11,950/140/152/1. Reaming to btm.
Core No. 3 11,927-11,950. Cut and rec'd 23'
11,927-29 Ss, fg, gry, hd, calc, spotty yellow fluor
11,929-31 Ss, vf-fg, gry-brn, sl calc, uniform brn oil
stain, yellow nat fluor
11,931-33 Ss, a.a., tite
11,933-35 Ss, a.a., grading from fg-c
11,935-37 Ls, v sandy, spotty fluor
11,937-43 Shale, dk brn, calc
11,943-47 Silst, grn-brn, calc, tite
11,947-49 Ss, vf, silty, calc, spotty dk solid fluor
11,949-50 Ss, fg, hd, tite, v calc
Note: 11,929-35 high angle-vert fractures bleeding ck brn oil.
Mud: (gradient .505) 9.8 x 48 x 7. MAY 20 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" Csg at 11,100'

11,961/140/153/11. Running DST No. 2 11,831-11,961.
Mud: (gradient .499) 9.6 x 55 x 4.8. MAY 21 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" Csg at 11,100'

12,084/140/156/123. Drilling.
DST No. 2 11,831-11,961
(2350' WC - 38 bbls) (3/4" btm-hole chk)
Op 10 min, ISI 120 min
Op 60 min, FSI 180 min.
Initial open w/weak blow, inc to strong in 3 min. Final
open w/weak blow, inc to very strong in 1 min. After 50 min
blow, started decreasing. Very small amt of GTS in 55 min.
Burping WC 60 min into FSI w/trc of gas.
Reversed out: 20 bbls HGCWC
18 bbls grading from trc oil to very heavily gas
& oil emulsified WC
154 bbls very heavily gas-cut oil.
IHP 6082, ISIP 5039, IFP 1740-2251, FFP 2325-4344, FSIP 4925,
FHP 5996.
BHT - 175°.
Mud: (gradient .494) 9.5 x 47 x 6.3.

MAY 24 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" Csg at 11,100'

12,145/140/157/61. Drilling.
Mud: 9.4 x 48 x 5.2. MAY 25 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" Csg at 11,100'

12,170/140/158/25. Drilling. Dev: 12,155' 1°S80E -
corrected to S65E
Mud: (gradient .488) 9.4 x 45 x 5.8.

MAY 26 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" Csg at 11,100'

12,234/140/159/64. Drilling.
Mud: (gradient .488) 9.4 x 47 x 6.0. MAY 27 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" Csg @ 11,100'

12,273/140/160/39. Drilling.
Washed and reamed to btm.
Mud: (gradient .488) 9.4 x 46 x 6.4. MAY 28 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" Csg at 11,100'

12,440/140/164/167. Tripping.
Drld bridge at 11,775'. Circ 13 hrs for DST #3. Opened
tool at 8:37 a.m. 5/30/71.
DST #3 12,164-12,350.
Johnson 3/4" Bottom hole chk
2500' WC (36 bbl)
IF 15 minutes no blow, cycled tool. Tool open 20 minutes
w/very weak blow.
ISI 150 min
FF Open 30 minutes, no blow, cycled tool after 15 mins, no
blow, left tool open on additional 15 mins w/no blow.
Recovered:
50' heavy thick blk oil
2270' WC (36 bbl w/oil globs)
580' SG & flaky mud
Estimate: total of 2 bbls oil & 5 bbls mud.
IH 6197 - recorder @ 12,142'
IF not measureable due to plugging - 3723
ISIP 5850
FF not measurable due to plugging.
Sample Chamber: 1.3 cuft of gas @ 800 psi
1500 cc mud & oil (approx 75% oil) .
BHT = 161°F
Mud: (gradient .490) 9.4 x 48 x 5.2 JUN 1 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" Csg @ 11,100'

12,498/140/165/58. Drilling.
Washed 40' to btm. JUN 2 1971
Mud: (gradient .500) 9.6 x 45 x 5.4.

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" Csg @ 11,100'

12,572/140/166/74. Drlg.
Mud: (gradient .505) 9.7 x 47 x 5.0. JUN 3 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" Csg at 11,100'

12,620/140/167/48. Tripping for core bbl. JUN 4 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" csg at 11,100'

12,760/140/170/140. Drilling.
Core No. 4 12,620-12,676. Cut and rec'd 56'.
12,620-22 Ss, gry, vf, well sorted, sub rd, calc, bur &
churn, few streaks of brn O/S w/pale yellow NF.
12,622-23 Slst, gry-grn, floating vf-med Ss grains, calc,
N/S
12,623-27 Ss, red-brn, f-m sub rd, v slty and argill,
calc, N/S.
12,627-28 Ss, wh-gry, f-v crse, sub ang, calc, mottled
w/Ss, red-brn a.a., N/S.
12,628-30 Ss, red-brn, nfm, argill & calc, tight, mottled
w/Ss, wh-gry a.a., N/S.
12,630-32 Ss, gry-grn and red-brn, mottled, vf-m,
v silty & argill, calc, N/S,
12,632-34 Ss, gry-grn, vf-v crse, poorly sorted, sub
rd, calc, bur & churn, N/S.
12,634-36 Ss, red-brn & gry-grn, mottled, mostly vf-f,
occ m-v crse, v slty, argill, calc, N/S
12,636-38 Ss, red-brn, vf-m, occ., v crse, argill,
sli calc, N/S.
12,638-40 Slst, red-brn, v sdy & argill, calc, N/S.
12,640-44 Sh, red-brn, v slty & sdy.
12,644-49 Ss, gry-grn, vf-crse, poorly sorted, calc, N/S.
12,649-56 Ss, red-brn, vf-crse, poorly sorted, calc,
bur & churn, N/S.
12,656-57 Ss, gry, vf-crse, calc, bur & churn, N/S.
12,657-58 Ss, red-brn & grn-gry, mottled, vf-m, calc, N/S.
12,658-60 Ss, gry-grn, vf-m, calc, bur & churn, N/S.
12,660-64 Ss, gry, vf-f, well sorted, sub rd, calc,
hairline calcite filled vertical fractures, N/S.
12,664-66 Ss, gry to light brn, vf, calc, N/S.
12,666-69 Ss, gry, f, occ. v crse, slight salt & pepper,
calc, N/S.
12,669-70 Ss, a.a. w/1MM calcite filled vertical fracture,
N/S.
12,670-76 Ss, a.a.
Mud: (gradient .520) 10.0 x 47 x 6 JUN 7 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" csg at 11,100'

12,805/140/171/45. Drilling..
Mud: (gradient .520) 10.0 x 52 x 5.3 JUN 8 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" csg at 11,100'

12,836/140/172/31. Tripping.
Lost approx 170 bbls while increasing mud from 10.0# to
10.3#/gal.
Mud: 10.3 x 47 x 5.6 JUN 9 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" csg at 11,100'

12,883/140/173/47. Tripping.
Mud: (gradient .535) 10.3 x 46 x 5.4 JUN 10 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" csg at 11,100'

12,890/140/174/7. Tripping.
Attempted DST #4 12,820-12,890, 4700' WC (Johnston)
Op tool 10 min w/very weak blow. Pkrs failed after
10 min.
Core #5 12,836-12,883 - cut 47' & rec'd 46'.
12,836-37 Ss, gry, vf, well sorted, v calc, tight,
calcite lined vert frac filled with hvy
blk oil (pour point 80°F)
12,837-38 Ss, gry, f-m, calc, slight salt & pepper,
tight, N/S
12,838-39 Sh, red brn, v slty & sdy, grd to ss, grn-
gry, f-crse, poorly sorted, N/S
12,839-40 Slst, red brn, sli calc, N/S
12,840-42 Sh, mottled, red brn & grn gry, calc
12,842-43 Ss, mottled red brn & gry grn, vf-m, slty,
poorly sorted, tight, calc, N/S
12,843-44 Slst, grn gry, & red brn mottled, v sdy
(up to crse), calc, tight, N/S
12,844-50 Sh, red brn, v sdy & slty, grd to ss, slty,
calc, tight, N/S
12,850-51 Ss, gry grn sli mottled w/red brn, vf-f,
slty, well sorted, v calc, tight, N/S
12,851-52 Slst, red brn, v sdy, calc, grd to slst,
gry grn, v sdy, tight, N/S
12,852-53 Slst, red brn, a.a., grd to slst, gry grn,
v sdy, N/S
12,853-55 Sh, red brn, slty, non calc, N/S
12,855-57 Sh, red brn, v sdy (up to crse), slty, calc,
N/S
12,857-59 Ss, red brn, v f-v crse, slty, poorly sorted,
calc, tight, N/S
12,859-61.8 Sh, red brn, floating ss grains (up to med),
calc, N/S
12,861.8-62.4 Ss to conglomerate, m-pebbles (bmm), poorly
sorted, calc, tight, N/S
12,862.4-68 Sh, red brn sli mottled w/grn gry, v slty &
sdv (f-m), N/S
12,868-72 Ss, red brn, f-crse, v slty, calc, tight N/S
12,872-74 Sh, red brn, v slty & sdy (f-m), not calc,
N/S
12,874-82 Sh, a.a., v sli calc, N/S JUN 11 1971
Mud: (gradient .535) 10.3+ x 48 x 6.0

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" csg at 11,100'

13,040/140/177/150. Drilling. Dev: 1° N 76° E at
12,960.
Washed and reamed 60' to btm. JUN 14 1971
Mud: (gradient .548) 10.4 x 45 x 5.5

Shell-Christensen
No. 1-33A5
(WCP Moran)
14,000' Wasatch Test
9 5/8" csg at 11,100'

13,118/140/178/78. Drilling.
Lost 550 bbls mud while trying to raise mud wt from
10.4 to 10.5 while drilling at 13,083.
DST No. 4 12,820-12,890 (Johnston)
(4700' WC)
Op 10 min w/no blow, recycled tool.
Op 10 additional min w/very weak intermittent blow.
Pkrs failed at end of 10 min pre-flow.
Recovery: 3200' WC
1500' very sli O&GC WC
310' SGCM

Sample Chamber: Undetermined volume of SOCM at 150 psi
Press's: IHP 7050, IFP 2303-2306, FHP 6978
BHT - 176°F
Mud: (gradient .548) 10.4 x 47 x 6.2 JUN 1 5 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" csg at 11,100'

13,164/140/179/46. Drilling.
Mud: (gradient .548) 10.4 x 48 x 6.0 (LCM 3%) JUN 1 6 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" csg at 11,100'

13,241/140/180/77. Drilling. JUN 1 7 1971
Mud: (gradient .550) 10.5 x 48 x 6.0 (LCM 3%)

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" csg at 11,100'

13,284/140/181/43. Drilling.
Mud: 10.5 x 53 x 6.2 (Oil Trc) JUN 1 8 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" csg at 11,100'

13,447/140/184/163. Drilling.
Drld bridges at 11,684, 12,912, and 13,179.
Mud: (gradient .550) 10.5 x 50 x 6 (LCM 1%) JUN 2 1 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" csg at 11,100'

13,533/140/185/86. Drilling.
Mud: (gradient .551) 10.6 x 47 x 5 JUN 2 2 1971

Shell-Christensen
no. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" csg at 11,100'

13,576/140/186/43. Drilling.
No mud details. JUN 23 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" csg at 11,100'

13,660/140/187/84. Losing circ mixing mud and LCM.
Lost circ at 13,660; lost 1000 bbls. Pulled 3 stds
out of hole. JUN 24 1971
Mud: (in) 10.9 (out) 10.2 x 48 x 5.8 (LCM 2) (Oil .5%)

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" csg at 11,100'

13,673/140/188/13. Drilling. Dev: 1° at 13,663.
No mud details. JUN 25 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" Csg at 11,100'

13,680/140/191/7. Laying down test tools on misrun DST.
On 6/26/71, attempted DST #5. Hit bridge at 11,754±. Pulled
out of hole. Increased mud wt 10.8 to 11.0#/gal. = DST #6
On 6/28/71, reran DST #5, 13,568-680 (Halliburton) 7000' WC.
Pkrs failed. Made three attempts to set pkrs, none successful.
Mud: (gradient .572) 14.0 x 57 x 5.0 (LCM 10%). JUN 28 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" Csg at 11,100'

13,719/140/192/39. Drilling.
Mud: (gradient .577) 11.1 x 55 x 6 (LCM 11%). JUN 29 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" Csg at 11,100'

13,752/140/193/33. Tripping.
Mixed LCM and cond mud.
Short trip 4 stds and reamed back to btm from 13,483-13,371.
Lost 100 bbl mud. JUN 30 1971
Mud: (gradient .582) 11.2 x 54 x 5.2 (LCM 12%)

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" Csg at 11,100'

13,779/140/194/27. Drilling.
Magnafluxed DC's; laid down cracked box and junk sub w/cracked
pin. JUL 1 1971
Mud: (gradient .582) 11.2 x 58 x 5.0 (LCM 16%) (Oil trc).

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
9 5/8" Csg at 11,100'
Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
7 5/8" Liner @ 13,806'

13,792/140/195/13. Tripping
Circ and cond mud to log. Lost 100 bbls mud. JUL 2 1971
Mud: (gradient .592) 11.4 x 76 x 4.5 (LCM 25%) (Oil 2%)

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
7 5/8" Liner @ 13,806'

13,808/140/199/16. WOC.
Ran & cmt'd (Hal) 74 jts (3037') 7 5/8" 33.7# S-95 SFJ-P
liner w/75 sx pozmix "A" 75:25, 2% gel, slurry wt 13.5#/gal.
Tailed in w/900 sx Type "G" w/10% salt, 30% silica flour @
15.9#/gal slurry. Displaced w/318 bbls drlg mud. Good
annular returns throughout cmt job. Btm of liner set @
13,806' KB, top @ 10,757' KB. Bumped plug to 2500 psi.
Held ok. Estimate 100' Type "G" cmt above liner hanger.
Plug down 6 a.m. 7/6/71. JUL 6 1971
Mud: (gradient .577) 11.3 x 60 x 6.0 (LCM 22%) (Oil 2%).

Shell-Christensen
NO. 1-33A5
(WC) Moran
14,000' Wasatch Test
7 5/8" Liner @ 13,806'

13,808/140/201/0. Rig down for draw works repairs.
JUL 8 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
7 5/8" Liner @ 13,806'

13,808/140/202/0. Rig down for drawworks repairs; cond'g mud.
JUL 9 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
7 5/8" Liner @ 13,806'

13,808/140/205/0. Going in hole to CO 7 5/8" liner.
Repaired drawworks 7/9/71 and 7/10/71. On 7/11/71, laid
down 5" DP and 6" DC's; picked up 3 1/2" DP and 4 9/16" DC's.
Mud: (gradient .593) 11.4 x 50 6.0 JUL 12 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
7 5/8" Liner @ 13,806'

13,808/140/206/0. Drilling cmt float shoe in 7 5/8" liner.
Tripped in w/3 1/2" DP. Lost hammer in hole and fished same.
Note: 6 1/2" bit must be rotated to get into liner top.
Mud: (gradient .592) 11.4 x 52 x 6.0 JUL 13 1971

Shell-Christensen 13,818/140/207/0. Tripping.
No. 1-33A5 Mud: (gradient .592) 11.4 x 80 x 6.2 JUL 14 1971
(WC) Moran
14,000' Wasatch Test
7 5/8" Liner at 13,806'

Shell-Christensen 13,845/140/208/27. Tripping in hole w/hycalog diamond bit.
No. 1-33A5 Mud: (gradient .572) 11.1 x 68 x 8.0. JUL 15 1971
(WC) Moran
14,000' Wasatch Test
7 5/8" Liner at 13,806'

Shell-Christensen 13,945/140/209/100. Drilling.
No. 1-33A5 Mud: (gradient .596) 11.4 x 55 x 6.4. JUL 16 1971
(WC) Moran
14,000' Wasatch Test
7 5/8" Liner at 13,806'

Shell-Christensen 14,125/140/212/180. Drilling.
No. 1-33A5 Mud: (gradient .608) 11.7 x 48 x 6.8. JUL 19 1971
(WC) Moran
14,000' Wasatch Test
7 5/8" Liner at 13,806'

Shell-Christensen 14,193/140/213/68. Making trip for DST.
No. 1-33A5 Mud: (gradient .618) 11.9 x 57 x 6.4 JUL 20 1971
(WC)
14,000' Wasatch Test
7 5/8" Liner @ 13,806'

Shell-Christensen 14,193/140/214/0. Running DST No. 7
No. 1-33A5 Mud: (gradient .623) 12 x 57 x 6.2. JUL 21 1971
(WC)
14,000' Wasatch Test
7 5/8" Liner @ 13,806'

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
7 5/8" Liner @ 13,806'

14,194/140/215/1. Drilling.
DST No. 7 14,063-14,193 (9000' WC)
Op 10 min on 1/8" chk, 10 on 3/4" chk, very weak blow.
SI 120 min.
Op 60 min, weak blow throughout. SI 300 min.
Recovery: 9000' WC
Est 3.3 bbls brn-grn oil w/trc gas
Sample Chamber contained: (1.7 cf gas at 1,000 psi)
300 cc's mud
1000 cc's brn-grn oil (41.8° API @
60°F)
Formation gradient = .66
Mud gradient = .65
Press's: (Recorder at 14,082'):
IHP 9162, IFP 4068-4068, ISIP 9303, FFP 4068-4073,
FSIP 9275, FHP 9105. JUL 22 1971
BHT - 200 F.

Grad: 0.659
12.7 FFP

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
7 5/8" Liner @ 13,806'

14,278/140/216/84. Drilling.
Mud: (gradient .650) 12.5 x unreadable x 6.0 JUL 23 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
7 5/8" liner at 13,806'

No report. JUL 26 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
7 5/8" Liner @ 13,806'

14,524/140/220/246 (4 days report). Drilling.
Mud: (gradient .660) 12.7 x 54 x 6.0. JUL 27 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
7 5/8" Liner @ 13,806'

14,580/140/221/56. Tripping.
Mud: (gradient .660) 12.7 x 57 x 6.2. JUL 28 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
7 5/8" Liner @ 13,806'

14,643/140/222/63. Drilling.
Mud: (gradient .660) 12.7 x 57 x 6.0. JUL 29 1971

Shell-Christensen 14,735/140/223/92. Drilling.
No. 1-33A5 Mud: (gradient .671) 12.9+ x 54 x 5.8 (Oil trc) JUL 30 1971
(WC) Moran
14,000' Wasatch Test
7 5/8" Liner @ 13,806'

Shell-Christensen 15,012/140/226/227. Drilling.
No. 1-33A5 Mud: (gradient .671) 12.9 x 57 x 6.0. AUG 2 1971
(WC) Moran
14,000' Wasatch Test
7 5/8" Liner @ 13,806'

Shell-Christensen 15,108/140/227/96. Drilling.
No. 1-33A5 Mud: (gradient .670) 12.9 x 57 x 5.8. AUG 3 1971
(WC) Moran
14,000' Wasatch Test
7 5/8" Liner @ 13,806'

Shell-Christensen 15,219/140/228/111. Drilling. AUG 4 1971
No. 1-33A5 Mud: (gradient .670) 13.0 x 53 x 6.6
(WC) Moran
14,000' Wasatch Test
7 5/8" Liner @ 13,806'

Shell-Christensen 15,262/140/229/43. Tripping.
No. 1-33A5 Mud: (gradient .670) 12.9+ x 56 x 5.8. AUG 5 1971
(WC) Moran
14,000' Wasatch Test
7 5/8" Liner @ 13,806'

Shell-Christensen 15,337/140/230/75. Drilling.
No. 1-33A5 Cleaned 60' to btm.
(WC) Moran Mud: (gradient .670) 13 x 60 x 5.2. AUG 6 1971
14,000' Wasatch Test
7 5/8" Liner @ 13,806'

Shell-Christensen 15,625/140/233/2096. Drilling.
No. 1-33A5 Mud: (gradient .670) 13.5 x 65 x 5.6 (Oil trc). AUG 9 1971
(WC) Moran
14,000' Wasatch Test
7 5/8" Liner @ 13,806'

Shell-Christensen 15,640/140/234/15. Coming out of hole w/DST.
No. 1-33A5 Mud: 13.5 x 63 x 4.8 (Oil trc). AUG 10 1971
(WC) Moran
14,000' Wasatch Test
7 5/8" Liner @ 13,806'

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
7 5/8" Liner @ 13,806'

15,660/140/235/20. Drilling.
DST No. 8 15,410-15,640 - (13,400' WC - 183 bbls)
Op 15 min w/weak blow increasing to strong in 6 min, inc
slightly throughout. SI 90 min, blow continued throughout.
Op 1 min - pkrs failed.
Recovery: 183 bbls WC (last 35 bbls very sli gas & oil cut)
8 bbls very sli oil and gas-cut mud

Pressures (Recorder @ 15,382)
IHP 11,169, IFP 6182-6233, ISIP 11,163, FHP 11,152.
BHT - 212 F.
(Sample chamber results to be reported later. CO 40' to btm.
Mud: (gradient .720) 13.5 x 64 x 4. AUG 11 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
7 5/8" Liner @ 13,806'

15,724/140/236/64. Drilling.
Mud: (gradient .700) 13.5 x 52 x 3.6 (Oil .5%) AUG 12 1971

Shell-Chrsitensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
7 5/8" liner @ 13,806'

15,780/140/237/56. Drilling.
Mud: (gradient .700) 13.5 x 60 x 6.0 (Oil 1%) AUG 13 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
7 5/8" liner @ 13,806'

15,970/140/240/190. Drilling. AUG 16 1971
Lost circ - 175 bbls at 15,948. Lowered mud wt to 13.6#.
Mud: (gradient .710) 13.6 x 58 x 6.0 (LCM 6%) (Oil 1.5%).

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
7 5/8" liner @ 13,806'

15,991/140/241/21. Coring.
Cleaned 10' to bottom AUG 17 1971
Mud: (Gradient .710) 13.6 x 58 x 6.0 (LCM 6%) (Oil 1.5%)

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
7 5/8" liner @ 13,806'

16,022/140/242/31. Tripping.
Completed coring. Work'd tight hole. Laid down core bbl.
Core #6 15,980-16,022. Cut 42' & rec'd 42'. Details tomorrow.
Mud: (Gradient .700) 13.5 x 70 x 4.2 (Oil 1.5%) AUG 18 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
7 5/8" liner @ 13,806'

16,073/140/243/51. Drilling.
Reamed 40' to bottom.
Addition to yesterday's report:
Core #6 15,980-16,022. Cut 42' & rec'd 42'.
15980.5-82 Ss, wh-gry, S&P, M-C, subang, calc, tite
15982-84.5 Ss, wh-gry, S&P, M-VC
15984.5-87.5 Sltstn, gry
15987.5-90 Sltstn, rd-brn, sdy, calc
15990-92 Sltstn, aa, argill
15992-93.5 Ss, gry, S&P, f-m, subang, calc, tite
15993.5-95 Sh, brn, v slty
15995-97.5 Ss, gry, vf-f, healed frags
15997.5-16001.5 Ss, gry, S&P, vf-f, calc, tite
16001.5-02.5 Sh, gry-brn, v slty
16002.5-04.5 Sltstn, gry, sdy, argill, foss, calc
16004.5-05.5 Sh, rd-brn, v slty, calc
16005.5-09.5 Sltstn, gry, calc
16009.5-11.5 Sh, gry, v slty, calc, sdy
16011.5-13.5 Sltstn, brn-gry, calc
16013.5-19.5 Ss, gry, vf, slty, calc, tite
16019.5-21.5 Sltstn, gry, sli sdy, argill, calc
16021.5-22 Sltstn, rd-brn, sli sdy, argill, calc
No shows. AUG 19 1971
Mud: (gradient .710) 13.6 x 70 x 5.8 (Oil 1.5%)

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
7 5/8" liner @ 13,806'

16,153'/140/244/80. Drilling. AUG 20 1971
Mud: (Gradient .710) 13.6 x 56 x 6.0 (Oil 1.5%)

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
7 5/8" liner @ 13,806'

16,300/140/247/147. Logging AUG 23 1971
Circ & cond mud to log.
Mud: 13.6 x 54 x 5.2 (LCM 2%) (Oil 1.5)

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
7 5/8" liner @ 13,806'

16,300/140/248/0. Logging.
Made trip to cond mud for logs.
Mud: (Gradient .710) 13.5 x 59 x 5.8 (LCM 2) (Oil 1.5).
AUG 24 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
7 5/8" liner @ 13,806'

16,300/140/249/0. Tripping.
Ran logs as follows: BHC/GR/cal, DIL, SNP, FDC/CNL, Wireline
Therm. Cond.
Mud: (Gradient .710) 13.5 x 59 x 5.8 (Oil 1.5). AUG 25 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
7 5/8" liner @ 13,806'

16,300/140/250/0. Circ for DST #9. AUG 26 1971
Cleaned 100' to btm.
Mud: (Gradient .71) 13.7 x 61 x 5.8 (Oil 1.5%)

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
7 5/8" liner @ 13,806'

16,300/140/251/0. Running DST #9.
Lost 300 bbls mud while circ for DST #9. Loss stopped before
tripping out.
Mud: (Gradient .710) 13.6 x 55 x 5.8 (Oil 1.5) **AUG 27 1971**

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
7 5/8" liner @ 13,806'

16,300/140/254/0. Tripping.
DST #9 15,850-16,301 (Rig depth) 15,836-16,287 (Schl depth).
15,550' WC. 3/4" bottom hole choke.
Op 7 min. Very strong blow immed. WC flowed @ 900 psi on 1/2"
chk, decr to 150 psi in 7 mins.
SI 60 min. Flow died.
Op 48 min. Very strong flow immed. @ 700 psi on 1/2" chk.
Initial flow rate 0.6 BPM decr to less than 0.1 BPM in 35 mins
No GTS. Est total flow 25 bbls WC.
SI 240.

Reversed out WC and 25 bbls mud. No indications of gas or oil.
Sample chamber: 2200 cc's mud @ 50 psi. No gas or oil.
R_{wc} (throughout 46.6 @ 62°, R_m (pits) 1.6 @ 76°, R_m (chamber)
1.8 @ 66°, R_m (reversed) 1.7 @ 77°.
Recorder @ 16,297, IHP 12,004, IFP 8561-8561, ISIP 11,297,
FFP 8641-8747, FSIP 10,634, FHP 11,954, BHT 229° F. **AUG 30 1971**
Circ and cond hole to 16,000'. Ran cmt plug from 14,682-
15,100 w/125 sx Class "G" cmt, 10% salt, 3.5% retarder. Plug
down 2:40 a.m. 8-29-71. Ran Bkr Model "K" 7 5/8 cmt retainer
(OWP) to 13,782. Ran (Dia-Log) Csg Profile Caliper Log in
9 5/8" csg to 4971. Added wt; could not go below 4971. Log
showed most csg wear from 620-650, 1/8" wear. Ran 8 5/8" bit.
Did not touch anything at DV tool. Washed and rotated 4960-4990.

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
7 5/8" liner @ 13,806'

16,300/140/255/0. Tripping w/DP. Ran (Dia-Log) Casing
Profile Caliper to 10,759. **AUG 31 1971**

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
7 5/8" liner @ 13,806'

TD 16,300. PB 14,682. Running tbg. Laid down DP. NU Series
5000# BOP. **SEP 1 1971**

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
7 5/8" liner @ 13,806'

TD 16,300. PB 14,682. Press testing 9 5/8" csg. Ran 443
jts (12,991') 2 7/8" N-80, 8rd EUE tbg w/2 7/8" type "H" back
press valve in tbg hanger and retainer stinger without seals
on btm. **SEP 2 1971**

Shell-Christensen
No. 1-33A5
(WC) Moran
14,000' Wasatch Test
7 5/8" liner @ 13,806'

TD 16,300. PB 14,682. MORT. Tested 9 5/8" csg to 3000 psi
for 30 min. ND BOP's. Pulled and RD RTTS tool. NU BOP's. Cut
drill line, ran seal assembly w/o seals. Ran total of 444 jts.
(13,020') of 2 7/8" tbg. Released rig 12 a.m. 9-3-71. **SEP 3 1971**

Shell-Christensen
No. 1-33A5
(WC) Moran
16,000' Wasatch Test
7 5/8" liner @ 13,806'
TD 16,300. PB 14,682. MORT. SEP 7 1971

Shell-Christensen
No. 1-33A5
(WC)
16,000' Wasatch Test
7 5/8" liner @ 13,806'
TD 16,300. PB 14,682. MORT. SEP 8 1971

Shell-Christensen
No. 1-33A5
(WC) Moran
16,000' Wasatch Test
7 5/8" liner @ 13,806'
TD 16,300. PB 14,682. MORT. SEP 9 1971

Shell-Christensen
No. 1-33A5
(WC)
16,000' Wasatch Test
7 5/8" liner @ 13,806'
TD 16,300. PB 14,682. MORT. SEP 10 1971

Shell-Christensen
No. 1-33A5
(WC)
16,000' Wasatch Test
7 5/8" liner @ 13,806'
TD 16,300. PB 14,682, MICR. SEP 13 1971

Shell-Christensen
No. 1-33A5
(WC) Ford Tool Co.
16,000' Wasatch Test
7 5/8" liner at 13,806'
TD 16,300. PB 14,682. MI & RU CR (Ford Tool Co). SEP 14 1971

Shell-Christensen
No. 1-33A5
(WC) Ford Tool Co.
16,000' Wasatch Test
7 5/8" liner at 13,806'
TD 16,300. PB 14,682. Pulling tbg. RUCR. Cond 240 bbl mud to 13.6#/gal, 48 visc. 0 press on csg, 0 press on tbg. Removed Cameron back press valve from tbg. Removed donut and instl'd 5000# working pressure swab valve. Filled tbg w/36 bbls 13.6#/gal mud. Filled csg-tbg annulus w/6 bbls 13.6#/gal mud, w/ tbg tail at 13,031. Could not break circ w/3000# press on tbg. Could not break circ at 12,445, 11,859, 10,687 or 9807. Tested BOP's to 2000 psi, held ok. Began pulling tbg from 9807 at 7 a.m. SEP 15 1971

Shell-Christensen TD 16,300. PB 14,682. Circ & cond mud at 6050'. Pulled 89
 No. 1-33A5 stds, 178 jts and found 1 full jt + 10' on second jt solid
 (WC) Ford Tool Co. bridge in tbg. Mostly lost circ material w/some type of black
 16,000' Wasatch Test tarry wax. Pulled remainder of tbg and retainer stinger.
 7 5/8" liner at 13,806' Started in hole w/new 6 1/8" bit on tbg to circ & cond mud.
 Ran 20 stds, approx 1200' & circ up. Ran in hole in 1200' incre-
 ments. Circ & cond to 13.6#/gal, 49 visc, 36 plastic, 8 yield,
 0-5 gels, 2% lost circ material. SEP 16 1971

Shell-Christensen TD 16,300. PB 14,682 (CIBP). Prep to drill retainer at 13,782.
 No. 1-33A5 Ran tbg w/6 1/8" bit to 13,782 breaking circ every 1200'.
 (WC) Ford Tool Co. Tagged retainer at 13,782 and picked up 4'. Circ hole, reversed
 16,000' Wasatch Test & cond mud for 12 hrs. SEP 17 1971
 7 5/8" liner at 13,806' Mud: 13.7#/gal, 48 visc w/tr lost circ materials.

Shell-Christensen TD 16,300. PB 14,682. Rng collar locator survey. Drld retainer
 No. 1-33A5 at 13,782 and pushed to bottom. Circ on btm for 3 hrs. Tripped
 (WC) Ford Tool Co. out of hole w/tbg and bit laying down tbg. Att to run Model
 16,000' Wasatch Test "D" pkr; could not get into top of 7 5/8" liner. Pulled Model
 7 5/8" liner at 13,806' "D". Hit tite place in 9 5/8" csg from 6620-6630 w/Model "D"
 which is 6.187" OD. Pulled 6' stretch out of WL to pull (Model
 "D" out of tight place. Pulled out of hole. Top gauge ring on
 Model "D" marked up. SEP 20 1971

Shell-Christensen TD 16,300. PB 14,682. WO csg caliper logging tool. MI & RU
 No. 1-33A5 OWP. Ran csg collar log from 6800'-sfc. Csg collars ok compared
 (WC) Ford Tool Co. w/WL Inc. log dated 8-25-71. Collar log indicated place from
 16,000' Wasatch Test 6616-6624' had been centralized away from side of pipe. Remain-
 7 5/8" liner at 13,806' der of 9 5/8" casing normal. SEP 21 1971

Shell-Christensen TD 16,300. PB 14,682. Prep to install 10" BOP's. MI&RU
 No. 1-33A5 Dialog. Ran in w/csg caliper log to check minimum ID 9 5/8"
 (WC) Ford Tool Co. csg. Ran in to 6620' and hit obstacle which indicated 2"
 16,000' Wasatch Test restriction. When picked up, tools showed nominal csg size.
 7 5/8" liner at 13,806' Ran in to 7,000'; had difficulty getting down. Restriction
 in csg apparently moving down hole below logging tool. Ran
 three logs from 6800-6400 with no csg restriction; all csg
 collars recorded. Pulled out of hole. SEP 22 1971

Shell-Christensen TD 16,300. PB 14,682. Running tbg w/test tools filling
 No. 1-33A5 every 20 jts w/fresh wtr. Removed 7 1/2" 10,000# BOP's and 10,000#
 (WC) Ford Tool Co. tbg hanger. Instld 10" 5000 spool BOP's and hydril. Tested
 16,000' Wasatch Test pipe rams and blind rams to 4000 psi for 15 min, held ok. Picked
 7 5/8" liner at 13,806' up Johnston test tools and (4) 4 3/4" OD drill collars. Began
 picking up tbg at 7 p.m. 9-22-71. SEP 23 1971

Shell-Christensen
No. 1-33A5
(WC) Ford Tool Co.
16,000' Wasatch Test
7 5/8" liner at 13,806'

TD 16,300. PB 14,682. Prep to continue DST. Ran tbg, collars & DST tools. Set Johnston dual pkrs at 13,750 & 13,743, safety seal at 13,740, safety sub at 13,738. 48-hr recorders at 13,727 & 13,722, 8-day recorder at 13,716, hydraulic jars at 13,712, by-pass at 13,709, MFE chamber at 13,700. Second 8-day recorder at 13,692, circ sub at 13,688, drill collar 13,688-13,658, reversing sub at 13,655. Opened tool 1:30 p.m. 9-23-71. Opened w/strong flow of load wtr, decr to weak flow in 1 hr. Left tool open 5 hrs. Rec'd 1/2 bbl/hr wtr cushion for 5 hrs. Shut tool in 6:30 p.m. Shut in overnight. SEP 24 1971

Shell-Christensen
No. 1-33A5
(WC) Ford Tool Co.
16,000' Wasatch Test
7 5/8" liner at 13,806'

TD 16,300. PB 14,682. Prep to bleed off TP. Opened tool 7 a.m. 9-23-71 w/manifold closed. Immediate pressure on manifold 1850 psi. Opened well to pits and pressure dropped to 0 in 10 min. Well flowed at 1/3 B/H for 4 hrs. Made first swab run 11 a.m., swbd from 500'. Waited one hr, fluid did not raise to surface. Made second swab run at 12 noon. FL at 400, swbd from 1000'. Waited 30 min-no fluid to surface. Made swab run #3 at 12:30 p.m., FL at 800', SF 1300'. Made total of 16 swab runs in 18 hrs. FL-final run 6800, SF 7500'. At 50-200' FL entry between each swab run. Closed tool on btm 7 p.m. 9-23-71. Closed swab valve at surface - shut in overnight. Opened tool at 7:30 a.m. 9-24-71 with immediate strong blow on 30/64" chk. Reset chk at 864. Flowed for 2 hrs to 18/64" chk for 1 hr. WC to surface in 3 hr. Flowed 25 bbls WC in 1 1/2 hrs. Flowed mud 2 hrs-mud cut oil (90% oil) for 2 hrs. Closed tool on btm 4 p.m. Opened tbg valve to allow gas to vent out of tbg. Pmp'd 15 bbl HW down tbg. SI overnight. Opened well to pit 7:30 a.m. 9-25-71. Well had 4100 psi SITP. Opened well to pit 7:30 a.m. Flowed well to pit for 3 hrs. Tbg plugged w/paraffin. Attempted to pump HW down tbg; could not pump in at 400 psi. Opened well to pit. Opened reversing valve. Pmpd 70 bbls mud down annulus; could not break circ to surface on tbg. SI overnight. SEP 27 1971

Shell-Christensen
No. 1-33A5
(WC) Ford Tool Co.
16,000' Wasatch Test
7 5/8" liner at 13,806'

TD 16,300. PB 14,682. Prep to pull tbg and test tools. RU Dow and pmpd down tbg to pump out circ plug. Pumped out plug at 5400 psi sfc tbg press. Conditioned mud and circ in reverse to clean up tbg. Circ two tbg volumes out of hole. SEP 28 1971

Shell-Christensen
No. 1-33A5
(WC) Ford Tool Co.
16,000' Wasatch Test
7 5/8" liner at 13,806'

TD 16,300. PB 13,740 (CIBP). Running OWP cmt bailer w/2 sx cmt to cap CIBP. At 8 a.m. 9-28-71, SITP 750 psi, SICP 800 psi. Press bled to 0 on tbg and csg. Pmpd in 10 bbls 14.2#/gal mud down tbg. Pulled tbg & test tools. SICP 4 hrs after pulling test tools-500 psi with 13.7 mud in hole. FHP and FSIP indicated 516 psi under balance w/13.7 mud in hole. RU OWP. Set Johnston Wasp CIBP at 13,750.

DST #11 13,880-14682

SEP 29 1971

Recorder @ 13,712

Open 286 min, strong blow (12") decr to weak in 1 hr. Flowed 1/2 B/H water cushion. SI 775 min.

Open 2 min, SI 27 min (prep to swab).

Open 450 min, no flow. Swabbed down to 7500'. 50 to 200' fluid entry on each run. SI 780 min.

Open 528 min-strong blow on 30/64" chk, reset on 8/64" chk, flowed 2 hrs, opened to 18/64" chk-1 hr. WC to surface (from approx 7500') 265 mins into final flow. Flowed approx 25 bbl WC in 1 1/2 hrs. Flowed mud approx 2 hrs, flowed mud-cut oil (90% oil) approx 2 hrs. SI 952 min.

Opened tool; tool plugged w/paraffin. Prep to reverse out.

IHP 9783

IFP 6124-6192

ISIP 9381

2nd FP 6255-6255

2nd SIP 6566

3rd FP 6255-2681 (swabbing)

3rd SIP 8373

FFP 3372-5836

FSIP 10,378

FHP 9862

Estimated total oil prod-approx 80 bbls.

SEP 29 1971

Shell-Christensen
No. 1-33A5
(WC) Ford Tool Co.
16,000' Wasatch Test
7 5/8" liner at 13,806'

TD 16,300. PB 13,740 (CIBP). WOC. Capped CIBP at 13,750 w/2 sx cem. SEP 30 1971

Shell-Christensen
No. 1-33A5
(WC) Ford Tool Co.
16,000' Wasatch Test
7 5/8" liner at 13,806'

TD 16,300. PB 13,740 (CIBP). Running CBL. WOC 24 hrs. Ran tbg openended and picked up 52' from top of cement. Closed pipe rams and press tested csg and BP to 1850 psi for 15 min, held ok. Released press and circ mud out of hole as follows: pumped 100 bbls fresh wtr containing 1 gal mud flush/bbl fresh wtr followed by 400 bbls fresh wtr, 1,000 bbls 10.1#/gal SW (sodium chloride) containing 100 gals M-15-C Visco corrosion inhibitor and 100# Nalco oxygen scavenger. Pulled out of hole and MI&RU Western WL. Ran PDC from PBD to 11,000'. OCT 1 1971

Shell-Christensen
No. 1-33A5
(WC) Ford Tool Co.
16,000' Wasatch Test
7 5/8" liner at 13,806'

TD 16,300. PB 13,740 (CIBP). Drlg ret at 10,655. Ran bond log from PBD to 6800. Bond only fair to very poor. Press'd csg to 1500 psi & reran bond log-no change in bond log under pressure. SI overnight. Perf from 10,700-10,701 w/4 (3/8") shots w/Western Perf Co. Ran 9 5/8" Bkr cem ret on WL; could not get below 34'. Pulled ret; ret covered w/paraffin. Ran 63' tbg w/Bkr csg scraper. Circ 40 bbls 180° wtr. Pulled tbg & scraper. Set 9 5/8" Bkr cmt ret on WL at 10,655. RD Western Perf Co. Ran tbg w/Bkr stinger sub. Stung into retainer at 10,655. Press'd 9 5/8"=2 7/8" annulus to 1000 psi to test ret, ok. Established inj rate of 4 B/M w/2700 psi. Cmt'd through squeeze holes at 10,700 w/300 sx Hal lite cmt, 10% salt & 10# Gilsonite/sx. Final squeeze press 2100. Stung out of ret and dumped 2 sx cmt on ret. Reversed out 1 1/2 tbg volumes. Pulled tbg & stinger sub. Squeeze job complete 10 p.m. 10-2-71. SI 2:30 a.m. 10-3-71. WOC 24 hrs (10 p.m. 10-2-71 - 10 p.m. 10-3-71). Ran tbg w/8 1/2" Security bit w/enlarged wtr forces for dump passage. Drld hard cmt for 5' on top of ret. OCT 4 1971

Shell-Christensen
No. 1-33A5
(WC) Ford Tool Co.
16,000' Wasatch Test
7 5/8" liner at 13,806'

TD 16,300. PB 13,740 (CIBP). Prep to run in w/6 1/2" bit to CO liner. Drilled ret and 43' of hard cem in total of 18 hrs. Ran bit 20' below cem w/nothing in csg. Pulled out of hole. MI&RU Western WL. Run CBL from top of 7 5/8" liner at 10,757-10,500, good bonding from 10,757-10,668 which is top of cem. Pulled out of hole. RD Western WL. OCT 5 1971

Shell-Christensen
No. 1-33A5
(WC) Ford Tool Co.
16,000' Wasatch Test
7 5.8" liner at 13,806'

TD 16,300. PB 13,740 (CIBP). Prep to perf. Picked up 6 1/2" bit, bit sub & ran in on 2 7/8" tbg to 10,720. Circ btms up in reverse. While reverse circ ran bit into 7 5/8" liner. Circ btms up; no cuttings. Press tested squeeze to 2,000 psi for 10 min w/10.1#/gal salt wtr in hole. Ran bit to 13,000'. Circ hole for 2 hrs. Pulled tbg & bit. OCT 6 1971

Shell-Christensen
No. 1-33A5
(WC) Ford Tool Co.
16,000' Wasatch Test
7 5/8" liner at 13,806'

TD 16,300. PB 13,740 (CIBP). Prep to break down lower perms w/Hal pump truck. RU Western Co. Using 4" hollow steel carrier 19 gram jet gun, perf one 0.49" hole at each of the following depths:
11,931, 11,928, 11,925, 11,922, 11,915, 11,909, 11,905, 11,889,
11,881, 11,871, 11,846, 11,817, 11,813, 11,808, 11,795, 11,791,
11,666, 11,662, 11,650, 11,624, 11,604, 11,597, 11,594, 11,586,
11,581, 11,577, 11,573, 11,555, 11,543, 11,539, 11,516, 11,513,
11,510, 11,498, 11,492 and 11,478. Set Bkr 7 5/8" ret BP at 12,100 & retrievamatic pkr at 11,772 w/tail to 11,839. Installed press gauges on tbg & csg. SI overnight. OCT 7 1971

Shell-Christensen

No. 1-33A5

(WC)

16,000' Wasatch Test

7 5/8" liner at 13,806'

TD 16,300. PB 13,740 (CIBP). Prep to acidize lower perms. RU Hal and pmpd into lower formation at rate of 1 B/M w/2200 psi. RD Hal and RU to swab. Swbd total of 60 bbls in 5 hrs, last 10 bbls highly oil & gas-cut mud. Well kicking 90% oil. Pmpd 40 bbls 180° SW down tbg. OCT 8 1971

Shell-Christensen

No. 1-33A5

(WC)

16,000' Wasatch Test

7 5/8" liner at 13,806'

TD 16,300. PB 13,740 (CIBP). Prep to run prod tbg. RU Hal. Press test'd lines to 10,000 psi, ok. Acid treated lower perms 11,791-11,931 w/12,500 gals 15% HCL containing 250 gals WG-6, 25 gals HAI-50, 30 gals HC-2, 25 gals WWS, and 850# OS-160 Unibeads (650# wide-range & 200# button). Additives all evenly distributed in acid. Flushed w/78 bbls 10.1# SW containing 70# WG-6. Held 1000 psi on annulus during entire job. Max tbg press 7400, min press 5800, avg press 6800. Max rate 12 B/M, min rate 9 B/M, avg rate 11 B/M. Final pmpg press 5800-500. ISIP 0 in 3 min. Flowed 385 bbls. Reset BP at 11,768. Set pkr at 11,760. Press test BP to 7000 psi, held ok. Had 1000 psi on annulus. Reset pkr at 11,388 w/tail to 11,464. Press tested annulus to 200 psi. Pmpd into upper perms 11,478-11,666 at rate of 3 B/M at 2200 psi. Released press. RU to swb. Swbd FL to 8000' in 4 hrs. 100-200' of fluid entry between runs. RU Hal. Acidized upper perms 11,478-11,666 w/20,000 gals 15% HCL containing 400# WG-6, 40 gals HAI-50, 60 gals HC-2, 40 gals WWS, and 1200# OS-160 Unibeads (1000# wide-range & 200# button). Flushed w/75 bbls 10.1#/gal SW containing 70# WG-6. Held 1000 psi on annulus during job. Max press 6300, min press 5800, avg press 6000. Max rate 12 B/M, min rate 10 B/M, avg rate 12 B/M. Final pmpg press 5800 to instantaneous 600 to 0 in 2 min. Flowed 565 bbls. Reset BP at 12,100, pkr at 11,451. SI overnight to melt Unibeads. 13-hr SITP = 0. RU to swab. FL at 1400'. Had some problem getting through Unibeads floating on top of fluid. Made 5 swab runs. Swbd FL to 2400'. Fluid began raising in tbg and well started flowing to pit to clean up. In 1/2 hr flowed on 32/64" chk w/ 130 psi FTP. Sample indicated an estimated 50% oil-50% wtr, also few undissolved Unibeads. Flowed to pit for total of 8 hrs. FTP fluctuating between 150 psi & 200 psi on 32/64" chk. Est flow rate-1 B/M, 50-5% cut. Pmp'd 60 bbls 10.1#/gal SW down tbg & 30 bbls 10.1#/gal SW down csg. Released pkr. Tbg & csg both on vacuum. Picked up ret BP and pulled out of hole. MI&RU Western WL. 0 press on well. Set Bkr Model "D" in 9 5/8" csg at 10,714. FL at 1800' while going in hole. RD Western. Ran 126 jts 5 1/2" 14#/ft csg heat string w/tail to 5046. Put backpress valve in donut & landed heat string. Removed 10" 5000# BOP's & 10" hydril. Installed 7 1/16 x 11" tbg spool w/10,000 psi adaptor spool & 6" 5000 psi BOP's. Laid down 97 jts 2 7/8" tbg. OCT 11 1971

Shell-Christensen
No. 1-33A5
(WC)
16,000' Wasatch Test
7 5/8" liner at 13,806'

TD 16,300. PB 13,740 (CIBP). Prep to knock out tbg plug. Ran 339 jts 2 7/8" EUE 8rd N-80 tbg w/one 4', one 6' & one 10' tbg pup, Bkr Model "E" anchor seal assembly, SL on-off seal connector & 10' prod tube w/knock-out plug on btm. Latched into Model "D" at 10,714. Set 10 points wt on pkr, locked in donut, removed BOP's and installed 5000# tree. Pressure tested csg to 1500 psi, held ok. Pressure tested tbg & tree to 5000 psi, held ok. SI 9 p.m.-started heating heat string w/hot oil truck. OCT 12 1971

Shell-Christensen
No. 1-33A5
(WC)
16,000' Wasatch Test
7 5/8" liner at 13,806'

TD 16,300. PB 13,740 (CIBP). Prep to open well to treater w/300 psi SITP. RU Marshall WL Service. Knocked out tbg plug and RU to swab. Made 2 swab runs; well started flowing. OCT 13 1971
Flowed to pits for 30 min to clean up; switched to treater 8:45 a.m. Flowed 442 BO and 380 BW in 16 hrs from 9 a.m. to 1 a.m. 10-13-71. Well died 1 a.m. Last 5 hrs, well flowed 196 BW w/10% very tite emulsion on 16/64" chk w/230/300# FTP. Well would not flow at 200# TP. Shut well in 1 a.m. to let TP build up.

Shell-Christensen
No. 1-33A5
(WC)
16,000' Wasatch Test
7 5/8" liner at 13,806'

TD 16,300. PB 13,740 (CIBP). Flowing to battery. Op'd well to treater at 7:30 a.m. At 8 a.m. well had 80% wtr cut. Turned well to pit to flow off wtr. Flowed to pit for 10 1/2 hrs. FTP 70-110 on 54/64" chk. Turned to treater 7 p.m. 10-13-71. From 7 p.m. to 7 a.m. 10-14-71, well flowed 86 BO, 506 BW. Last 5 hrs, from 2 a.m. to 7 a.m., well flowing on 36/64" chk w/80 psi TP. OCT 14 1971

Shell-Christensen
No. 1-33A5
(WC)
16,000' Wasatch Test
7 5/8" liner at 13,806'

TD 16,300. PB 13,740 (CIBP). Prep to flow well to pit. Shut well in for two hrs while rigging down. Well died. Left well SI. Changed wellhead valves. Installed temporary flowline. Released rig 4 p.m. 10-14-71. SITP after 6 hrs - 110 psi. Opened well to pits and well flowed for 10 mins and died. Well flowed in small heads for one hr. Shut in 6 p.m. to allow pressure buildup. OCT 15 1971

Shell-Christensen
No. 1-33A5
(WC)
16,000' Wasatch Test
7 5/8" liner at 13,806'

TD 16,300. PB 13,740 (CIBP). Flowing to battery intermittently Hooked up Glycol heating system. Turned well over to prod 10-17-71. OCT 18 1971

Shell-Christensen
No. 1-33A5
(WC)
16,000' Wasatch Test
7 5/8" liner at 13,806'

TD 16,300 PB 13,740 (CIBP). Flowing. In 18 hrs, flowed in intermittent slugs - total of 12 BO, 42 BW on 24/64" chk w/10 psi FTP. OCT 19 1971

Shell-Christensen TD 16,300. PB 13,740 (CIBP). Flowing intermittently. In
 No. 1-33A5 24 hrs, in intermittent slugs, flowed 15 BO and 44 BW on
 (WC) 24/64" chk w/10 psi FTP. OCT 2 0 1971
 16,000' Wasatch Test
 7 5/8" liner at 13,806'

Shell-Christensen TD 16,300. PB 13,740 (CIBP). Flowing in intermittent slugs.
 No. 1-33A5 On 24-hr test, flowed 15 BO and 34 BW on 24/64" chk w/20 psi
 (WC) FTP. OCT 2 1 1971
 16,000' Wasatch Test
 7 5/8" liner at 13,806'

Shell-Christensen TD 16,300. PB 13,740 (CIBP). Flowing in intermittent
 No. 1-33A5 slugs. On 24-hr test, flowed 8 BO and 17 BW on 24/64" chk
 (WC) w/20 psi FTP. OCT 2 2 1971
 16,000' Wasatch Test
 7 5/8" liner at 13,806'

Shell-Christensen TD 16,300. PB 13,740 (CIBP). Prep to inj nitrogen to stimu-
 No. 1-33A5 late flow. OCT 2 5 1971
 (WC) On 24-hr tests, rates were as follows:

Date	BO	BW	Chk	FTP	Remarks
10-22	10	34	24/64"	0	Flwg in intermittent slugs
10-23	12	37	24/64"	10	" " "
10-24	15	20	24/64"	20	" " "

Shell-Christensen TD 16,300. PB 13,740 (CIBP). MI&RU Nowsco to attempt wtr
 No. 1-33A5 disbursement. On 24-hr test, flowed 7 BO, 11 BW, and 6 MCF
 (WC) on 21/64" chk w/20 FTP. OCT 2 6 1971
 16,000' Wasatch Test
 7 5/8" liner at 13,806'

Shell-Christensen TD 16,300. PB 13,740 (CIBP). Prep to retreat w/nitrogen.
 No. 1-33A5 MI&RU Nitrogen Oil Well Service Co. 8 a.m. 10-26-71. Well
 (WC) pressure=0. Ran 3/4" Nowsco tbg to 3500'. Circ 180° nitrogen
 16,000' Wasatch Test at rate of 100 cubic ft/min while running tbg. Circ at 100
 7 5/8" liner at 13,806' cubic ft/min for 1 hr at 3500'. Wellhead pressure increased
 to 600 psi w/well flowing 100% wtr on 36/64" chk. Shut off
 nitrogen; wellhead pressure dropped to 150 psi in 15 min. Circ
 well at 400 cubic ft/min for 30 min; wellhead pressure in-
 creased to 750 psi, well flowing 95-100% wtr on 45/64" chk.
 Shut off nitrogen-wellhead pressure dropped to 150 psi in 20
 min. Ran Nowsco tbg to 5000'. Circ nitrogen at 100 cubic ft/
 min while running tbg. Circ nitrogen at 100 cubic ft/min for
 2½ hrs at 5000'. Well was flowing at 90 bbl/hr rate at end of
 first half hr. Circ nitrogen for 2½ hrs at 100 cubic ft/min
 rate. At end of 2½ hrs, well flowing at rate of 80 bbl/hr on
 45/64" chk. Rates & cuts unstable. Pulled Nowsco tbg. Put
 well on prod on 20/64" chk w/225 psi FTP. By 11 p.m., well-
 head pressure had dropped to 150 psi. Reset chk at 12/64".
 Well flowed at 100-150 psi FTP until 5 a.m., and wellhead
 pressure dropped to 20 psi at 5 a.m. and well died. Well
 flowed a total of 101 BO, 480 BW, in 15 hrs from 2 p.m.
 10-26-71 until 5 a.m. 10-27-71. OCT 2 7 1971

Shell-Christensen
No. 1-33A5
(WC)
16,000' Wasatch Test
7 5/8" liner at 13,806'

TD 16,300. PB 13,740 (CIBP). Prep to retreat w/nitrogen. Ran Newsco 3/4" tbg to 7500'. Circ at rate of 100 cubic ft of 180° nitrogen while going in hole. Circ at same rate for 4 hrs w/3/4" tbg to 7500'. Ran out of nitrogen at 4 p.m. Pulled Newsco tbg. Well flowed 62 BO and 446 BW in 6 hrs from 10 a.m. to 4 p.m. on 10-27-71 while treating w/nitrogen. Pulled 3/4" tbg at 5 p.m. Well switched to treater flowing on 16/64" chk w/225 FTP. Well flowed total of 67 BO and 527 BW in 15 hrs from 10 a.m. 10-27-71 to 3 a.m. 10-28-71. Well died at 3 a.m. OCT 28 1971

Shell-Christensen
No. 1-33A5
(WC)
16,000' Wasatch Test
7 5/8" liner at 13,806'

TD 16,300. PB 13,740 (CIBP). Well shut in. Ran 3/4" Newsco tbg to 7500'. Circ 180° F. nitrogen at rate of 100 cubic ft/min while running tbg. Hit bridges w/2 7/8" tbg at 778', 910' & 1013'. Worked through bridges and ran to 7500'. Circ at rate of 100 cubic ft/min. for one hr, at 200 cubic ft/min for 2 hrs, at rate of 300 cubic ft/min for 2 hrs. Well flowed 56 BO and 414 BW on 45/64" chk in 7 hrs-from 9 a.m. 10-28 to 4 p.m. 10-28. Shut off nitrogen 4 p.m. Pulled Newsco tbg. Opened well to treater w/100 psi FTP on 45/64" chk. Well flowed 87 BO and 910 BW from 9 a.m. 10-28 to 4 a.m. 10-29. No fluid last two hrs. Well still flowing gas at 6:30 a.m. 10-29. Shut well in 6:30 a.m. w/full wtr pits. OCT 29 1971

Shell-Christensen
No. 1-33A5
(WC)
16,000' Wasatch Test
7 5/8" liner at 13,806'

TD 16,300. PB 13,740 (CIBP). Well SI. MI&RU Schlumberger at 8 a.m. 10/30/71. SITP 400 psi. Ran Schlumberger spinner to 11,200'. Opened well to pit. Well flowed for 30 mins, then died. Moved down from 11,200 to 12,200 during flow period. Did not see any change in fluid flow rate. Attempted to pull logging tool and could not pull. Suspect 2 7/8" tbg to be crooked in 9 5/8" csg. Pumped 50,000 cu ft of 40°F nitrogen down tbg to cool and straighten tbg. Final hot press pumping nitrogen 3000 psi; could not pull spinner. Flowed well back for an hour and well died. Could not pull spinner during flow. Shut well in overnight. SITP 7 a.m. 10/31/71 150 psi. RU Hal. Pumped 140 bbls cold water down tbg at rate of 9 B/M w/5000 psi. Had to lower tool to 13,250 during pumping due to pull on WL. Spinner turning at high rate during pumping indicating fluid passing by spinner w/spinner as deep as 13,250. SD Hal. Tbg straightened due to cooling. Pulled Schlumberger spinner. Released Hal and Schlumberger. Shut well in 1 p.m. 10/31/71. NOV 1 1971

Shell-Christensen
No. 1-33A5
(WC)
16,000' Wasatch Test
7 5/8" liner at 13,806'

TD 16,300'. PB 13,740 (CIBP). Shut in. SITP 140.
NOV 2 1971

Shell-Christensen
No. 1-33A5
(WC)
16,000' Wasatch Test
7 5/8" liner @ 13,806'

TD 16,300. PB 13,740 (CIBP). Attempting to MI Ford Rig
if weather permits. SI 24 hrs. NOV 3 1971

Shell-Christensen
No. 1-33A5
(WC) Ford Tool
16,000' Wasatch Test
7 5/8" liner @ 13,806'

TD16,300. PB 13,740. (CIBP) Prep to set pump, boiler,
pipe rack and complete RU. MI&RU Ford Tool Co. 11/3/71.
Installed tbg backpress valve and removed Xmas tree.
Installed 10" 5000# BOP's. Installed swab valve, removed
tbg backpressure valve. RU OWP. Ran sinker bars and collar
locator to 13,472. Had 260' of fillup. Logged csg and perfs
to 11,000'; csg ok. Pulled collar locator and ran Dual
Gamma Ray inj profile tool. Est stabilized inj rate of
1 B/M at 60 psi surface inj pressure. Profile log indicated
no fluid movement below perfs, no channeling above or below
perfs. 25% of fluid leaving wellbore between 11,780 &
11,931 evenly distributed. All perfs appear to be open.
No fluid leaving wellbore from 11,625-11,675. 75% of
fluid leaving wellbore between 11,478 & 11,625 evenly
distributed. All perfs appear to be open between 11,478 &
11,625. All open perfs taking fluid. Pulled logging tools.
Released OWP. NOV 4 1971

Shell-Christensen
No. 1-33A5
(WC)
16,000' Wasatch Test
7 5/8" liner @ 13,806'

TD 16,300. PB 13,740 (CIBP). Pulling tbg.
NOV 5 1971.

Shell-Christensen
No. 1-33A5
(WC)
16,000' Wasatch Test
7 5/8" liner @ 13,806'

TD 16,300. PB 13,740. (CIBP). Prep to continue pulling tbg,
milling tool and pkr. On 11/5/71, pulled tbg and installed
backpressure valve in 5 1/2" csg donut. Removed BOP and tbg
hanger spool. Reinstalled BOP, removed backpress valve and
laid down 124 jts 5 1/2" heat string. Installed swage and kill
valve. SD overnight. On 11/6/71, removed kill valve and
swage. Laid down last 2 jts of 5 1/2" heat string. Changed
pipe rams from 5 1/2" to 2 7/8". Ran 2 7/8 tbg w/Bkr 9 5/8"
pkr picker. Began pulling tbg. Closed kelly cock and pipe
rams. SD overnight. NOV 8 1971

Shell-Christensen
No. 1-33A5
(WC)
16,000' Wasatch Test
7 5/8" liner @ 13,806'

TD 16,300. PB 13,740 (CIBP). Prep to perf for wtr entry
test. Pulled tbg, milling tool & pkr. Laid down milling
tool and ran one stand tbg in hole. Closed pipe rams and
installed kill valve. NOV 9 1971

Shell-Christensen
No. 1-33A5
(WC)
16,000' Wasatch Test
7 5/8" liner @ 13,806'

TD 16,300. PB 13,740 (CIBP). Prep to continue swabbing. Pulled one std tbg in kill valve. RU OWP. Perf 4 holes at 90° angles from 11,358-11,359. RD OWP. Ran tbg and set Bkr 7 5/8" ret BP at 11,419 and ret pkr at 11,400. Press tested BP to 2500 psi for 15 min, held ok. Reset pkr at 11,312 and began swabbing. FL at 2100' first run. Swabbed FL to 6000' in 8 runs. Est FL in csg at 7000' when running tbg w/BP & pkr. RD swabbing equipment. Installed pressure gauge and swab valve. NOV 10 1971

Shell-Christensen
No. 1-33A5
(WC)
16,000' Wasatch Test
7 5/8" liner @ 13,806'

TD 16,300. PB 13,740 (CIBP) Prep to flow test well to determine if tbg press is from oil or wtr. RU to swab - found FL at 6000'. Made 3 swab runs - FL at 7500' after 3rd run. Waited one hr and then made swab run - FL remained at 7500'. Waited one additional hr, made swab run, and FL remained at 7500. Filled tbg-csg annulus w/40 bbls water. Fluid indicated to be at 700' in csg. Annulus had some gas and oil. Released pkr. Circ down tbg w/140 bbl fresh wtr to clean up annulus. Reset pkr at 11,312. Pressure tested annulus to 1650 psi for 15 min, held ok. Released pkr and retrieved BP. Reset BP at 11,700, reset pkr at 11,452. Filled annulus w/35 bbls fresh wtr. Started swabbing and found FL at 600' first run. Swabbed 20 bbls fluid in two hrs. FL at 400', SF 900' last 3 runs. Stopped swabbing and NOV 11 1971 installed pressure gauge on tbg to determine if well would pressure up. Well pressured up to 300 psi. SITP in 10 hrs.

Shell-Christensen
No. 1-33A5
(WC)
16,000' Wasatch Test
7 5/8" liner @ 13,806'

TD 16,300. PB 13,740 (CIBP). Prep to flow test lower zone. SITP 6 a.m. 11/11/71 - 325 psi. Op'd well to pits, well flowed for one hr, and died. Est flow of 50 bbls w/90-95% oil in one hr. Started swabbing and swabbed 17 bbls in 45 min. FL unstable in tbg. Well started flowing after 45 min swabbing. Well flowed est 250 bbl in 5 hrs, 75-80% wtr cut during entire 5-hr flow period. Loaded tbg w/65 bbl 80° fresh wtr. Released pkr and retrieved BP. Reset BP at 11,970, reset pkr at 11,714. Filled tbg-csg annulus w/75 bbl fresh wtr. Made 3 swab runs, FL at 400'. Swabbing from 900' all three runs. Shut well in to determine if well would build up tbg pressure. Pressure built up to 225 psi in 12 hrs. NOV 12 1971

Shell-Christensen
No. 1-33A5
(WC)
16,000' Wasatch Test
7 5/8" liner @ 13,806'

TD 16,300. PB 13,740 (CIBP). Flowing to battery. On 11/13/71, report read prep to open well to treater. 7 a.m. SITP 250 psi. Op'd well to pit-well flowed an est 50 BO from 7 a.m. to 8 a.m., 40 bbl of 90% wtr from 8 a.m. to 8:45 a.m. At 9 a.m., well was flowing at est rate of 50 B/H 56% wtr w/100psi FTP, choke wide open. At 10 a.m. well flowing at same rate and choke 100 psi FTP, 53% wtr. Cont'd to flow well until 5 p.m. No change in rates, pressures, cuts or choke setting. Shut well in 5 p.m. to obtain sfc press buildup. 7 a.m. 11/14/71, left well SI for 15 hrs, sfc press built to 500 psi in 15 hrs. Op'd well to treater and well flowed 31 bbl in 3 hrs and died. KU to swab. Swbd FL to 1500' - hit paraffin plug at 1500'. Could not work through plug. Shut well in to let press build up; press built to 100 psi in 12 hrs. 7 a.m. SITP 100 psi. RU Dowell pump truck and pumped 35 bbls 190° fresh wtr down tbg at 5 1/4 B/M w/1500 psi. RD Dowell. Switched well to treater. Well would not flow. Switched well to pit and swabbed FL to 1400'. Unable to get below 1500' w/swab. RU Dowell and pumped 25 bbl 195° wtr at 4 B/M and 5 bbl 190° wtr at 1 B/M. RD Dowell and RU to swab. Could not get below 1500' w/swab. Picked up tbg 2' to straighten. Reran swab and worked through tight spot at 1500' w/15 points wt setting on pkr. Swabbed FL to 1300'. Swabbed total of 50 bbls wtr and well started flowing. Flowed well to pits for 2 1/2 hrs to clean up. Switched well to treater at 4 p.m. Well flowed 446 BO and 896 BW in 15 hrs. Well flowed at rate of 31 BO/H and 61 BW/H for last 6 hrs. NOV 15 1971

Shell-Christensen
No. 1-33A5
(WC)
16,000' Wasatch Test
7 5/8" liner @ 13,806'

TD 16,300. PB 13,740 (CIBP). Prep to reset pkr at lower depth. Well flowed 689 BO, 1441 BW and est 500 MCF gas w/FTP 110 psi in last 24 hrs. NOV 16 1971

Shell-Christensen
No. 1-33A5
(WC)
16,000' Wasatch Test
7 5/8" liner @ 13,806'

TD 16,300. PB 13,740 (CIBP). Flowing to btry. Shut well in 7 a.m. 11/16/71 and pmpd 130 bbls 150° fresh wtr down tbg. Pmpd 80 bbls down annulus. Released pkr and reset at 11,832. Started swabbing to pit. FL at 400' on first swab run. Filled annulus w/120 bbls 150° fresh wtr after setting pkr. Swabbed total of 18 bbls and well started flowing. Flowed to pit for 1 hr to clean up. Switched well to treater at 1 p.m. In 18 hrs, from 1 p.m. 11/16/71 to 7 a.m. 11/17/71, well flowed 1,081 BO, 612 BW, est 1000 MCF gas w/FTP 195 on 64/64" chk. Last 4 hrs, well flowed avg of 64 BO/H and 10-16 BW/H. NOV 17 1971

Shell-Christensen
No. 1-33A5
(WC)
16,000' Wasatch Test
7 5/8" liner at 13,806'

TD 16,300. PB 13,740. (CIBP). Flowing to battery on 36/64" chk. Well pressure - 340 FTP. Well flowed 1001 BO and 345 BW in 22 3/4 hrs on 64/64" choke for 11 3/4 hrs and 36/64" chk for 11 hrs. Last 6 hrs, well flowed at rate of 46 BO/H and 12 BW/H, FTP increased from 300 to 340 in 6 hrs on 36/64" chk. NOV 18 1971

Shell-Christensen
 No. 1-33A5
 (WC)
 16,000' Wasatch Test
 7 5/8" liner @ 13,806'

TD 16,300. PB 13,740 (CIBP). Flowing. On 24-hr test, flowed 993 BO, 258 BW and unmeasured amt of gas on 36/64" chk, w/320 FTP and 0 CP. NOV 19 1971

Shell-Christensen
 No. 1-33A5
 (WC)
 16,000' Wasatch Test
 7 5/8" Liner @ 13,806'

TD 16,300. PB 13,740 (CIBP). Flowing.

On test, well flowed as follows:

Date	Hr. Test	BO	BW	MCF	Choke	FTP	CP	Remarks
11/19	17	632	50	Est. 500	20/64"	450	0	Dwn 7 hrs for tank room
11/20	24	882	189	Est. 500	Varying from 26/64" - 40/64"*	210	0	NOV 22 1971
11/21	24	896	228	Est. 500	"	280	0	

* Varied chks from 26/64" - 2 hrs to 40/64" - 1 hr intermittently

Shell-Christensen
 No. 1-33A5
 (WC)
 16,000' Wasatch Test
 7 5/8" liner @ 13,806'

TD 16,300. PB 13,740. (CIBP). Well SI; prep to pull tbg, pkr and ret BP. On 24-hr test, well flowed 876 BO, 216 BW and est 500 MCF gas on chk varying from 26/64" to 40/64" every third hr with FTP varying from 200-290 psi, CP 0. SI 7 a.m. NOV 23 1971

Shell-Christensen
 No. 1-33A5
 (WC)
 16,000' Wasatch Test
 7 5/8" liner @ 13,806'

TD 16,300. PB 13,740 (CIBP). Prep to run in w/overshot and jars on 2 7/8" tbg. Pmpd 70 bbls fresh wtr down tbg. Tbg on slight vacuum. Released pkr. Ran 8 jts 2 7/8" tbg & released ret BP. Pulled out of hole. MI&RU OWP. Ran on WL Bkr 7 5/8" retrieva "D" pkr, 4 1/2" x 2 7/8" swage, 10' 2 7/8" prod tube w/Bkr Model "P" plug in btm. Set pkr at 11,855. Pulled out of hole and WL pulled out of rope socket leaving setting tool, collar locator and rope socket in hole. NOV 24 1971

Shell-Christensen
No. 1-33A5
(WC)
16,000' Wasatch Test
7 5/8" liner @ 13,806'

TD 16,300. PB 13,740 (CIBP). Prep to cut paraffin. Picked up 5" overshot dressed w/3 3/32 grapple, bumper sub, hydraulic jars, and ran in on 2 7/8" tbg. Tagged fish; bumped down twice. Pulled tbg and overshot, and recovered fish. Picked up stinger for retrieval "D" pkr, 18 jts 2 7/8" tbg, Bkr FH hydraulic pkr, Bkr FL on-off seal connector and ran in on 2 7/8" N-80 tbg. Stung into retrieval "D" pkr and set down w/10,000 lbs. Pull up 10' to displace btm of hole w/inhibited wtr. Could not pump down tbg. Pulled 40 jts. Laid down 5 jts plugged w/paraffin. Ran back w/45 jts. Paraffin very bad. Pmpd 40 bbls heated fresh wtr into tbg in 15 hrs at 2400 psi pump pressure. Pulled tbg to steam clean. Pulled total of 79 jts. Laid down 6 that were plugged. Circ 65 bbls hot wtr down tbg and ran 20 jts 2 7/8". Pmpd 20 bbls hot wtr down tbg and ran 20 jts 2 7/8" tbg. Pmpd 20 bbls hot wtr down tbg and ran 20 jts 2 7/8" tbg. Pumped 20 bbls hot wtr down tbg. Ran 20 jts 2 7/8" tbg and pmpd 20 bbls hot wtr down 2 7/8" tbg. Stung into Model retrieval - D pkr and tested w/10,000 # set down wt. Pulled out of pkr. Displaced tbg at tbg-csg annulus to above Bkr FH hydraulic pkr w/100 bbls fresh wtr inhibited w/Tretolite KW-12 and oxygen scavenger. Stung back into retrieval - D pkr w/2000# set down wt. Set Bkr FH hydraulic pkr w/1500 psi TP. Press tested tbg to 3500 psi for 5 min, ok. Bled off TP very slowly. Loaded annulus w/fresh wtr and press tested FH hydraulic pkr w/1000 psi for 5 min, ok. Released pressure slowly. Disconnected from on-off seal connector and started displacing annulus w/fresh wtr. NOV 29 1971

NOTE: Bkr retrieval - D pkr is at 11,855. Stung in only no latch in. Bkr Model FH hydraulic pkr at 11,283, Bkr on-off seal connector and 2.25 FL nipple at 11,280.

Shell-Christensen
No. 1-33A5
(WC)
16,000' Wasatch Test
7 5/8" liner @ 13,806'

TD 16,300. PB 13,740 (CIBP). Running tbg. Displaced annulus w/inhibited fresh wtr to 4,000' from sfc. Pulled tbg. Picked up and ran 76 jts 5 1/2" 14#/ft K-55 csg for heat string. Landed on donut, csg tail at 3,030. Removed 10" BOP and backed off 5 1/2" csg donut. Installed 6" 5,000 psi hydraulic BOP's. NOV 30 1971

Shell-Christensen
No. 1-33A5
(WC)
16,000' Wasatch Test
7 5/8" liner @ 13,806'

TD 16,300. PB 13,740 (CIBP). Prep to swab well in. Ran in 2 7/8" N-80 tbg, latched onto on-off seal connector, and released from on-off seal connector. Spaced out. Latched onto off-on seal connector. Pulled 5,000# to assure latch. Set tbg on donut w/3,000# set-down on FH hydraulic pkr. Press tested tbg to 3500 psi for 5 min, ok. Removed BOP's and installed 5,000 psi Cameron composite Xmas tree. MI&RU Marshall WL. Tested Xmas tree and tbg to 3500 psi for 5 min, ok. Ran in w/sinker bars & jars to knock out Model "D" plug. Press'd tbg to 1,000 psi; could not knock out plug. Pulled tool. Put on WL grapple to try to reposition any possible junk in hole. Apparently repositioned junk and jarred out Model "D" plug. Tbg press went to 0. Pulled out of hole. RD&MO Marshall WL. DEC 1 1971

Shell-Chrsitensen
No. 1-33A5
(WC)
16,000' Wasatch Test
7 5/8" liner @ 13,806'

TD 16,300. PB 13,740 (CIBP). Thawing out Xmas tree.
13-hr SITP was 0. RU to swab. Swb'd est total of 50 bbl
of fluid in 8 hrs. FL began at 2500', rose to 800', and
fell to 1300'. (Total swbd - est 20 BO & 30 BW). DEC 2 1971

Shell-Christensen
No. 1-33A5
(WC)
16,000' Wasatch Test
7 5/8" liner @ 13,806'

TD 16,300. PB 13,740 (CIBP). Flowing.
13-hr SITP 150 psi. Bled to 0 in less than 1 min. RU to
swab. Thawed out Xmas tree. FL at 900'. Swbd est 30 bbls
fluid (20 BO & 10 BW) in 2½ hrs. FL rose to 700'. Well
started flowing. Flowed to pit for 4 hrs on 1" choke w/0-50
psi FTP. Flowed to pit for 1 hr on 25/64" chk w/100 psi
FTP. Turned well to prod treater 3:30 p.m. on 25/64" chk.
Flowed 180 BO and 160 BW on a 25/64" chk w/FTP varying
from 115 to 170 psi in 15½ hrs. Last hr, flowed 16 BO and
11 BW on 25/64" chk w/FTP 170. DEC 3 1971

Shell-Christensen
No. 1-33A5
(WC)
16,000' Wasatch Test
7 5/8" liner @ 13,806'

TD 16,300. PB 13,740 (CIBP). Flowing.
On 12/3/71, well flowed 633 BO and 472 BW in 24 hrs by
increasing chk from 25/64" to 64/64" while maintaining
about 100 psi FTP. On 12/4/71, SI well at 7:30 a.m.. On
the 3rd, tbg press increased from 100 psi to 220 psi in 1
hr to 8:30 p.m. Op'd well to treater. On 12/4, flowed
706 BO and 603 BW in 23 hrs by increasing chk from 32/64"
to 64/64" while maintaining about 100 psi FTP. DEC 6 1971
On 12/5, flowed 865 BO and 357 BW in 24 hrs on 1" chk
w/FTP varying from 90-100 psi.

Note: Perfs open to prod below retrieva "D" pkr are one hole
at each of following depths: 11,871, 11,881, 11,889, 11,905,
11,909, 11,915, 11,922, 11,925, 11,928 & 11,931. Total of
10 perfs.

Shell-Christensen
No. 1-33A5
(WC)
16,000' Wasatch Test
7 5/8" liner at 13,806'

TD 16,300. PB 13,740 (CIBP) Flowing.
Released Ford Rig 8 AM 12-6-71. On 21-hr test,
well flowed 839 BO and 268 BW w/FTP 100 on 1"
chk. Well down 3 hrs while rigging down and
tying in lines. DEC 7 1971

Shell-Christensen
No. 1-33A5
(WC)
16,000' Wasatch Test
7 5/8" Liner @ 13,806

TD 16,300. PB 13,740 (CIBP). OIL WELL COMPLETE.
On 24-hr test 12/7/71, well flowed 878 BO, 339 BW, and
492 MCF (GOR 560) on 1" chk w/FTP 90 from the Green
River-Wasatch Zone 11,871-11,931 (10 holes). Oil Gv.
40.8° API. Test date - 12/7/71. Initial prod date
10/12/71.

Elev: 6893 GL, 6920 KB

Log Tops:

TGR2 8,953 (-2033)

TGR3 10,455 (-3535)

Wasatch 12,080 (-5160)

It is an eight-mile western extension of the Altamont
Field and establishes hydropress'd oil production in
lower Green River transitional rocks.

FINAL REPORT. DEC 8 1971

THE STATE OF UTAH
DIVISION OF OIL AND GAS CONSERVATION

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

PM

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. Patented
2. NAME OF OPERATOR Shell Oil Company (Rocky Mountain Division Production)		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 1700 Broadway, Denver, Colorado 80202		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2033' FNL and 658' FEL Sec 33		8. FARM OR LEASE NAME Christensen
14. PERMIT NO. 43-013-30054	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6920 KB	8. WELL NO. 1-33A5
		10. FIELD AND POOL, OR WILDCAT No. Uinta Basin
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SE/4 NE/4 Section 33- T 1S-R 5W
		12. COUNTY OR PARISH Duchesne
		13. STATE Utah

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

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

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

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

As per attached report

18. I hereby certify that the foregoing is true and correct
SIGNED K. R. J. [Signature] TITLE Division Operations Engr. DATE Sept. 20, 1972

(This space for Federal or State office use)
APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

CEM SQZ FOR WTR SHUT-OFF
SHELL OIL COMPANY

FROM: 2-17 - 8-24-72

LEASE CHRISTENSEN
DIVISION ROCKY MOUNTAIN
COUNTY DUCHESNE

NO. UINTA BASIN
WELL NO. 1-33A5
ELEV 6920 KB
STATE UTAH

SEP - 8 1972

UTAH

NO. UINTA BASIN

Shell-Christensen
1-33A5
(Cem sqz for wtr
shut-off)

"FR" TD 16,300. PB 13,740 (CIBP) Prep to pump fresh
water down tbg.
AFE 574720 provides funds to cem sqz for water shut-off.
MI & RU Western Rig 2-16-72. FEB 17 1972

Shell-Christensen
1-33A5
(Cem sqz for wtr
shut-off)

TD 16,300. PB 13,740 (CIBP). Circ treated water out.
Rigged up. FEB 18 1972

Shell-Christensen
1-33A5
(Cem sqz for wtr
shut-off)

TD 16,300. PB 13,740 (CIBP). WO repairs.
Pulled tbg, changed out BOP accumulator, and tested
BOP's to 5,000 psi. Jayed on-off seal connector,
pulled tbg, and installed 5½" back press valve.
Removed BOP's and tbg spool, changed pipe rams,
installed BOP's and tested to 2,000 psi for 15 min,
no leaks. Removed 5½" backpress valve and pulled
5½" heat string. Tested BOP's and blind rams to
5,000 psi for 15 min, no leaks. Changed pipe rams
to 2 7/8", tested to 5,000 psi for 15 min, no leaks.
Ran on-off connector w/4' sub and one centralizer on
2 7/8" tbg. Jayed on-off connector, unseated FH pkr,
and ret'd "D" seal assembly. Pulled tbg w/pkr and
seal assembly. Ran ret "D" pkr ret tool on 2 7/8"
tbg. Latched onto pkr and unseated. Pulled tbg.
Tested BOP's. Circ trtd wtr out of csg w/fresh wtr.
Pmpd 66 bbls fresh wtr down tbg and installed tbg
backpress valve. Removed Xmas tree, installed BOP's and
pipe rams. Accumulator would not hold. FEB 22 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-off)

TD 16,300. PB 13,740 (CIBP). Prep to sqz. Pulled
tbg w/ret "D" pkr and RU OWP and set 7-5/8" CIBP at
11,830'. Set 7-5/8" cement retainer at 11,700. RD
OWP. FL at 600'. Ran tbg w/seal assembly and stung
into cement retainer at 11,700. Pumped into formation
at rate of 1-3/4 bbls/min w/350 psi. FEB 23 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-off)

TD 16,300. PB 13,740 (CIBP). Pulling tbg. RU Dowell and sqz'd 5 perfs at 11,791, 11,795, 11,808, 11,813 and 11,817 w/100 sx. Established inj rate of 1-1/4 B/M at 600 psi. Mixed 100 sx Class "G" cmt w/.4 D-13 and spotted cmt to 7500'. Stung into cmt ret at 11,700. Cmt on formation - 400 psi; 17 bbls in formation - 1600 psi. Started staging 5 min to 50 psi, staged 70 min on vac. Displaced cmt to btm on perfs at 11,817. Job complete at 10:47. Pulled 600' tbg. WOC. Ran tbg and stung into cmt ret at 11,700. Established inj rate of 1/2 B/M at 1500 psi. Mixed 50 sx Class "G" cmt w/.4 D-13 and spotted to 9000'. 1250 psi on formation w/7 bbls slurry at 2200 psi. Staged 15 min w/950 psi. Checked sqz from 1200-1600, 4 min 1600 psi. Job complete 4:25. FEB 24 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-off)

TD 16,300. PB 13,740 (CIBP). Pulling tbg. RU OWP and set 7-5/8" cmt retainer at 11,300. Ran cmt ret and seal assembly on 2-7/8" tbg and established circ and stung into cem ret. Established inj rate of 4 B/M at 500 psi. Started mixing cmt at 2:58. Sqz'd perfs from 11,358-11,666 w/150 sx Class "G" w/.4% D-13, followed by 200 sx Class "G" w/.4% D-13 and 1% D-60. Slurry wt - 15.8#. 55 bbls slurry in formation - 800 psi. Started staging and in 2 min press went to 0; staged 1 hr 49 min - pressure 1800 to 1200 in 6 min. Reversed out 1 1/2 bbls slurry. Job complete 5:20 PM. Began pulling tbg. FEB 25 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-off)

TD 16,300. PB 13,740 (CIBP). Pressure testing perfs. On 2/25, pulled tbg and ran 6 1/2" bit w/3 1/2" DC on 2-7/8" tbg. RU power swivel to drill on cmt ret at 11,300. On 2/26, drld 2' cmt from 11,298-11,300; drld cmt ret at 11,300. On 2/27, drld ret and hard cmt from 11,300-11,666. Drld from 11,666-11,700, top of cmt ret. Press tested perfs from 11,358-11,666 to 500 psi for 15 min; no leaks. FEB 28 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-off)

TD 16,300. PB 13,740 (CIBP). Tripping tbg and changing bit. Drld ret @ 11,700 and cmt from 11,006-11,045. FEB 29 1972

Shell-Christensen 1-33A5 TD 16,300. PB 13,740 (CIBP). Drilling on BP @ 11,830.
(Cem sqz for wtr shut-off) Ran new bit and DC in tbg. Drld firm cmt from 11,745-11,830. MAR 1 1972

Shell-Christensen 1-33A5 TD 16,300. PB 13,740 (CIBP). Pulling tbg. Drld on
(Cem sqz for wtr shut-off) BP @ 11,830 and pushed to 12,020'. Circ hole and press to 500 psi, no leaks. Laid down power swivel and started pulling tbg. MAR 2 1972
Addition to 2/29/72 report: Tested five sqz perfs from 11,791-11,817 to 500 psi for 15 min, OK.

Shell-Christensen 1-33A5 TD 16,300. PB 13,740 (CIBP). Running 5½" heat string.
(Cem sqz for wtr shut-off) Finished pulling tbg, laid down bit and DC's. RU OWP and perf'd one hole each @ 11,905, 11,909, 11,915, 11,922, 11,925, 11,928 and 11,931. Set retrieva "D" pkr @ 11,832. Changed out 2-7/8" tbg rams to 5-1/2" csg rams. MAR 3 1972

Shell-Christensen 1-33A5 TD 16,300. PB 13,740 (CIBP).
(Cem sqz for wtr shut-off) 3-4: Prep to run 2-7/8" tbg. RU and ran 5-1/2" csg. Ran 76 jts 5½" 14# K-55 csg for heat string. Installed back press valve, removed BOP, installed tbg spool, tested to 5000 psi. Installed BOP w/2-7/8" rams and removed BP valves.
3-5: Prep to knock out expendable plug @ 11,832'. Ran in hole w/Baker anchor seal assembly, on-off seal connector and Model "D" expendable plug. Ran 378 jts 2-7/8" 8rd EUE tbg and press tested every 30 stds w/rig pump. Circ K-700 and K-470 below heat string @ 3000'. Landed tbg w/1000# set down wt. Installed back press valve in tbg, removed BOP, installed Xmas tree, removed back press valve, and circ glycol in heat string - heated to 150°F.
3-6: Swabbing to pit. 12-hr SI press 75 psi. RU Marshall and ran in hole. Knocked out plug and RD Marshall. RU to swab. Swabbed 86 bbls wtr in 8 hrs. Swabbing to 5500'. Trace oil, small amt gas. MAR 6 1972

Shell-Christensen 1-33A5 TD 16,300. PB 13,740 (CIBP). Swabbing to pit.
(Cem sqz for wtr shut-off) 12-hr SIP 1200 psi. Swabbed 306 bbls in 12 hrs w/7 AM fluid level @ 1200', increasing to 6500' @ 7 PM. Swabbed from 6500' w/tr oil and sml amt gas. MAR 7 1972

Shell-Christensen 1-33A5 TD 16,300. PB 13,740 (CIBP). Swabbing to pit. Fluid level 1500'. Swabbed 330 bbls fluid in 12 hrs. (Cem sqz for wtr shut-off) Total swabbed to date 772 bbls. Last 4 hrs, oil percentage increased from tr to 3-4% oil. Swabbing from 6500. Fluid level 5500. 12-hr SITP 90 psi. MAR 8 1972

Shell-Christensen 1-33A5 TD 16,300. PB 13,740 (CIBP). Swabbing to pit. Fluid level 1500'. Swabbed 330 bbls in 12 hrs. Fluid level 5000', swabbing from 6000' (5% oil w/show of gas). (Cem sqz for wtr shut-off) 12-hr SITP 65 psi. MAR 7 1972

Shell-Christensen 1-33A5 TD 16,300. PB 13,740 (CIBP). Swabbing to pit. 3/9 (Cem sqz for wtr shut-off) 12-hr SIP 65 psi; 3/10 12-hr SIP 120 psi. Fluid level 1500' Swabbed 330 bbls in 12 hrs, 10% oil cut, from 6000'. Fluid level 5000'. Total swabbed to date 1382 bbls. MAR 10 1972

Shell-Christensen 1-33A5 TD 16,300. PB 13,740 (CIBP). (Cem sqz for wtr shut-off) 3/11: Swabbing. 12-hr SITP 120 psi, fluid level 1900'. Swabbed 337 bbls, 8% oil cut, from 6000'. Fluid level 5000'. Total swabbed to date 1719 bbls. 3/12: Swabbing. 12-hr SITP 120 psi, fluid level 1900'. Swabbed 350 bbls, 15% oil cut, from 6500'. Fluid level 5500'. Total swabbed to date 2069 bbls. 3/13: Swabbing. 12-hr SITP 135 psi, fluid level 2500'. Swabbed 350 bbls, 15% oil cut, from 6500'. MAR 13 1972 Fluid level 5500'. Total swabbed to date 2419 bbls.

Shell-Christensen 1-33A5 TD 16,300. PB 13,740 (CIBP). Swabbing. 12-hr SITP (Cem sqz for wtr shut-off) 115 psi. Fluid level 3000'. Swabbed 350 bbls fluid, 15% oil cut, from 6500'. Fluid level 5500'. Total swabbed to date 2769 bbls. MAR 14 1972

Shell-Christensen 1-33A5 TD 16,300. PB 13,740 (CIBP). Prep to run rods. (Cem sqz for wtr shut-off) 12-hr SITP 60 psi. Swabbed 90 bbls, 15% oil cut, in 3 hrs from 6500'. Fluid level 5500'. (Total bbls swabbed - 2859 bbls). Pumped 70 bbls fresh wtr down tbg @ 1500 psi w/rate of 1½ B/M. Installed tbg back-press valve and removed 2-7/8" 6' sub. Left tbg in tension. MAR 15 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-off)

TD 16,300. PB 13,740 (CIBP). Installing pumping unit. Ran 2-1/2" x 1-3/4" pump w/fluid packed "J" slot top anchor. Ran rods as follows: 189 3/4", 94 7/8" and 88 1". Set pump anchor catcher @ 9340. Released rig 4 PM 3/15/72. Reports discontinued until pumping unit installed. MAR 16 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-off)

TD 16,300. PB 13,740 (CIBP). (RRD 3/16/72) Pumping well. Pumped 27 BO and 331 BW w/o MCF gas w/eight 120" SPM. Glycol circ system lost liquid in sfc heater. Pulled 5-1/2" x 2-7/8" and 9-5/8" x 5-1/2" annuli on vacuum. Making checks to locate fluid loss. MAR 22 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-off)

TD 16,300. PB 13,740 (CIBP) Pumping. On 24-hr test, well pumped 25 BO, 268 BW, and 34 MCF gas. 1 3/4" pump. 120" stroke x 8 SPM. MAR 23 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-off)

TD 16,300. PB 13,740 (CIBP). Pumping. On 24-hr test, well pumped 35 BO, 250 BW and 34 MCF gas w/40 psi FTP. 120" stroke x 8 SPM. MAR 24 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-off)

TD 16,300. PB 13,740 (CIBP). Pumping. On 24-hr tests, well pumped as follows:

Date	BO	BW	Gas	Stroke
3/25	47	336	34 MCF	10 1/2 SPM x 120" stroke
3/26	121	323	34 MCF	10 1/2 SPM x 120" stroke
3/27	159	190	-	10" SPM. FL @ 6300'

MAR 27 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-off)

TD 16,300. PB 13,740 (CIBP). Pumping. On 24-hr test, well pumped 42 BO, 271 BW and 33 MCF gas w/10 1/2 SPM x 120" stroke x 1-3/4" pump. Well down approx 12 hrs trying to flow thru csg. MAR 28 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-off)

TD 16,300. PB 13,740 (CIBP). Pumping. On 24-hr test, well pumped 28 BO, 299 BW and 33 MCF gas. 10 1/2 SPM x 120" stroke. 1-3/4" pump. MAR 29 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-off)

TD 16,300. PB 13,740 (CIBP). Pumping. On 24-hr test, well pumped 4 BO, 349 BW and 34 MCF gas. 10 1/2 SPM x 120" stroke, 1-3/4" pump. CP 30 psi. MAR 30 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-
off)

TD 16,300. PB 13,740 (CIBP) Pumping. On 24-hr tests,
well pumped as follows:

<u>Date</u>	<u>BO</u>	<u>BW</u>	<u>MCF Gas</u>	<u>CP</u>	<u>TP</u>	
3/31	44	312	30	40	-	APR 3 1972
4/1	46	310	34	40	-	
4/2	46	330	34	50	45	FL @ 5700'
4/3	67	264	44	55	50	

All tests pumping 10½ SPM x 120" stroke, 1-3/4" pump

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-
off)

TD 16,300. PB 13,740 (CIBP). Well SD - pump off.
Well pumped 12 BO and 189 BW w/25 MCF. APR 4 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-
off)

TD 16,300. PB 13,740 (CIBP). Well SI 24 hrs.
TP 25 psi, CP 105 psi. APR 5 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-
off)

TD 16,300. PB 13,740 (CIBP). Well SI 24 hrs.
TP 30 psi, CP 130 psi. APR 6 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-
off)

TD 16,300. PB 13,740 (CIBP). WO clutch repair. Well
SI 24 hrs. APR 7 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-
off)

TD 16,300. PB 13,740 (CIBP).
4/8: Well SI - dead. Attempted to load tbg. Pumped
60 bbls wtr down tbg w/tbg on vac. Reports discontinued
until further activity. APR 10 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-
off)

TD 16,300. PB 13,740 (CIBP). (RRD 4/10/72). Prep
to set out pumping unit and MI Ford rig. APR 14 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-
off)

TD 16,300. PB 13,740 (CIBP).

4/15: Prep to pull tbg. Pulled rods and pump.
Installed BOP's and tested to 4000 psi.

4/16: Running tbg. Attempted to pull tbg. Could
not pull tbg hanger high enough to set slips.. Stripped
BOP's and pulled tbg hanger. Reinstalled BOP's. Un-
latched stinger assembly from Baker ret "D" pkr. Pulled
tbg and assembly; had indication of small possible
fluid wash on Baker on-off seal assembly. Reran Baker
redressed latching seal assembly w/knockout plug in
place. Started running tbg back in hole, filling every
20 stds.

4/17: Attempting to get WL tools in hole. Completed
running tbg. Latched into Baker ret "D" pkr. Completed
loading tbg and press tested to 4000 psi, held OK.
Loaded csg tbg annulus and circ w/heated inhibited wtr.
Tested to 300 psi. Press leaked off to 100 psi. RU
Marshall WL and attempted to knock out plug. Could not
get below 2180'. Circ hot wtr overnight. Ran thru
bridge @ 2180'. APR 17 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-
off)

TD 16,300. PB 13,740 (CIBP). RU Newsco to attempt
hot wtr washout of paraffin bridge @ approx 3200'.
Lost total of 25-30 bbls inhibited wtr to annular
space during last 24 hrs. APR 18 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-
off)

TD 16,300. PB 13,740 (CIBP). WO pumping unit
installation. Finished RU Newsco and knocked out
paraffin plug out of tbg using hot wtr and diesel
fuel. Ran to 6000' and pulled out of hole. RD
Newsco. RU Marshall WL Service. Press tested tbg
to 2000 psi, held OK. Knocked out knock-out plug.
Checked PBD @ 13,420 (fill to 13,420). RD Marshall
WL. Ran pump and rods. Seated pump and tested same.
RD pumping unit. Lost 12 bbls circ wtr during last
24 hrs. APR 19 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-
off)

TD 16,300. PB 13,740 (CIBP). WO pumping unit.
APR 20 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-
off)

TD 16,300. PB 13,740 (CIBP). Re-installing pumping
unit. Losing circ wtr to annular space @ approx 25
B/D. APR 21 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-off)

TD 16,300. PB 13,740 (CIBP).

4/22: Installing pumping unit.

4/23: Pumping. Well pumped 18 BO, 194 BW and no gas on 1-3/4" pump x 120" stroke x 10 SPM. TP 40 psi, CP zero.

APR 24 1972

4/24: Pumping. Well pumped 27 BO, 301 BW and no gas on 1-3/4" pump x 120" stroke x 10.5 SPM. TP 40 psi, CP zero. Losing 20 bbls inhibited wtr/day to annulus.

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-off)

TD 16,300. PB 13,740 (CIBP). Pumping. On 24-hr test, well pumped 30 BO, 289 BW and no gas on 1-3/4" pump x 120" stroke x 10 SPM w/40 psi TP and 0 CP.

APR 25 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-off)

TD 16,300. PB 13,740 (CIBP). Pumping. On 24-hr test, well pumped 45 BO and 274 BW on 1-3/4" pump x 120" stroke x 10 SPM. APR 26 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-off)

TD 16,300. PB 13,740 (CIBP). Pumping. On 24-hr test, well pumped 33 BO, 258 BW and no gas on 1-3/4" pump x 120" stroke x 10.5 SPM. APR 27 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-off)

TD 16,300. PB 13,740 (CIBP). Pumping. On 24-hr test, well pumped 13 BO, 237 BW and no gas on 1-3/4" pump x 120" stroke x 10.5 SPM w/40 psi pump press, 0 CP. APR 28 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-off)

TD 16,300. PB 13,740 (CIBP). Pumping. On 24-hr tests, well pumped as follows:

Date	BO	BW	MCF Gas	Pump Size	Stroke	SPM
4/29	57	224	30	1-3/4"	120"	10.5
4/30	33	169	40	1-3/4"	120"	10.5
5/1	62	194	30	1-3/4"	120"	10.5,

w/40 psi TP and 5 psi CP. MAY 1 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-off)

TD 16,300. PB 13,740 (CIBP). Pumping. On 24-hr test, well pumped 56 BO and 186 BW on 1.75" pump x 120" stroke x 10.5 SPM w/40 psi TP and 5 psi CP. Losing approx 18 BW/D to annulus. MAY 2 1972

Shell-Christensen 1-33A5 TD 16,300. PB 13,740 (CIBP). Pumping. On 24-hr test, well pumped 55 BO and 163 BW w/60 MCF gas on 1.75" pump x 120" stroke x 10.5 SPM w/40 psi pump press and 5 psi CP. MAY 3 1972

Shell-Christensen 1-33A5 TD 16,300. PB 13,740 (CIBP). Pumping. On 24-hr test, well pumped 48 BO, 166 BW and 50 MCF gas on 1.75" pump x 120" stroke x 10.5 SPM w/30 psi TP and 5 psi CP. MAY 4 1972

Shell-Christensen 1-33A5 TD 16,300. PB 13,740 (CIBP). Pumping. On 24-hr test, well pumped 67 BO and 165 BW w/20 MCF gas on 1.75" pump x 120" stroke x 10.5 SPM w/60 psi FLP and 5 psi CP. MAY 5 1972

Shell-Christensen 1-33A5 TD 16,300. PB 13,740 (CIBP). Pumping. On 24-hr tests, well pumped as follows on 1.75" pump x 120" stroke x 10.5 SPM:

Date	BO	BW	MCF Gas	FLP	CP
5/6	41	164	20	60	5
5/7	72	154	25	60	5
5/8	63	150	25	40	5

MAY 8 1972

Shell-Christensen 1-33A5 TD 16,300. PB 13,740 (CIBP). Pumping. On 24-hr test, well pumped 82 BO and 145 BW w/34 MCF gas on 1.75" pump x 120" stroke x 10.5 SPM w/45 psi FLP and 5 psi CP. MAY 9 1972

Shell-Christensen 1-33A5 TD 16,300. PB 13,740 (CIBP). Pumping. On 16-hr test, well pumped 57 BO and 85 BW w/16 MCF gas w/1.75" pump x 120" stroke x 10.5 SPM w/40 psi FLP and 5 psi CP. Down 8 hrs for engine trouble. MAY 10 1972

Shell-Christensen 1-33A5 TD 16,300. PB 13,740 (CIBP). Pumping. On 24-hr test, well pumped 59 BO and 147 BW w/35 MCF gas on 1.75" pump x 120" stroke x 10.5 SPM w/40 psi FLP and 40 psi CP. Lost approx 5 BW to annular space. MAY 11 1972

Shell-Christensen 1-33A5 TD 16,300. PB 13,740 (CIBP). Pumping. On 24-hr test, well pumped 83 BO and 150 BW w/34 MCF gas on 1.75" pump x 120" stroke x 10.5 SPM w/40 psi FLP and 50 psi CP. MAY 12 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-
off)

TD 16,300. PB 13,740 (CIBP). Pumping. On 24-hr tests,
well pumped as follows on 1.75" pump x 120" stroke x
10.5 SPM:

<u>Date</u>	<u>BO</u>	<u>BW</u>	<u>MCF Gas</u>	<u>FLP</u>	<u>CP</u>	
5/13	58	149	10	45	50	MAY 15 1972
5/14	72	131	26	40	45	
5/15	95	146	22	50	45	

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-
off)

TD 16,300. PB 13,740 (CIBP). Pumping. On 24-hr test,
well pumped 124 BO and 124 BW w/25 MCF gas on 1.75"
pump x 120" stroke x 10.5 SPM w/60 psi FLP and 50 psi
CP. MAY 16 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-
off)

TD 16,300. PB 13,740 (CIBP). Pumping. On 24-hr test,
pumped 113 BO and 115 BW w/12 MCF gas on 1.75" pump x
120" stroke x 10.5 SPM w/40 psi FLP and 45 psi CP.
MAY 17 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-
off)

TD 16,300. PB 13,740 (CIBP). Pumping. On 24-hr test,
pumped 116 BO and 121 BW w/38 MCF gas on 1.75" pump x
120" stroke x 10.5 SPM w/45 psi FLP and 50 psi CP.
MAY 18 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-
off)

TD 16,300. PB 13,740 (CIBP). Pumping. On 24-hr test,
pmpd 104 BO and 121 BW w/31 MCF gas on 1.75" pump x 120"
stroke x 10.5 SPM w/60 psi FLP and 45 psi CP.
MAY 19 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-
off)

TD 16,300. PB 13,740 (CIBP). Pumping. On 24-hr tests,
pumped as follows on 1.75" pump x 120" stroke x 10.5 SPM:

<u>Date</u>	<u>BO</u>	<u>BW</u>	<u>MCF Gas</u>	<u>FLP</u>	<u>CP</u>	
5/20	89	122	28	60	45	
5/21	90	122	24	60	45	MAY 22 1972
5/22	80	121	49	40	50	

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-
off)

TD 16,300. PB 13,740 (CIBP). Prep for remedial. On
6-hr test, pmpd 25 BO and 35 BW w/2 MCF gas on 1.75"
pump x 120" stroke x 10.5 SPM w/40 psi FLP to zero @
SI and 50 psi CP. MAY 23 1972

Shell-Christensen 1-33A5
(Cem sqz for wtr shut-
off)

TD 16,300. PB 13,740 (CIBP). SD. No production.
MAY 24 1972

Shell-Christensen 1-33A5 TD 16,300. PB 13,740 (CIBP). Pumping. On 12-hr test, (Cem sqz for wtr shut-off) pumped 40 BO and 42 BW w/12 MCF gas on 1.75" pump x 120" stroke x 10.5 SPM w/38 psi F.P and 48 psi CP. MAY 2 8 1972

Shell-Christensen 1-33A5 TD 16,300. PB 13,740 (CIBP). Pumping. On 24-hr test, (Cem sqz for wtr shut-off) pumped 59 BO and 92 BW w/20 MCF gas on 1.75" pump x 120" stroke x 10.5 SPM w/38 psi FLP and 40 psi CP. MAY 2 6 1972

Shell-Christensen 1-33A5 TD 16,300. PB 13,740 (CIBP). Pumping. (Cmt sqz for wtr shut-off) Rates are as follows on 1 3/4" pump w/120" stroke, 10.5 SPM.

Date	BO	BW	MCF	FLP	CP
5/26	32	110	21	40	48
5/27	23	102	12	40	40
5/28	51	81	8	35	35
5/29	19	56	7	0	40 (11-hr test)

MAY 3 0 1972

Shell-Christensen 1-33A5 TD 16,300. PB 13,740 (CIBP). Prep to fill tbg w/fresh (Cmt sqz for wtr shut-off) wtr and pull rods & pump. MO and tore down pump unit; leveled loc. AFE 583437 provides funds to sqz existing perfs, CO to PSTD, and perf & reperf & acidize. MI&RU Western Rig 5/30/72. Hauled in fresh wtr. Chgs last 24 hrs to AFE 583436 - \$1,261. MAY 3 1 1972

Shell-Christensen 1-33A5 TD 16,300. PB 13,740 (CIBP). (Cmt sqz for wtr shut off) Pulling tbg and seal assembly. Unseated pump. Pumped 120 bbls fresh wtr down tbg. Laid down polished rod and installed BOP's. Laid down all rods in singles and pump. RD rod equip. Released donut, pulled donut above slips, removed donut, ran 6' 2 7/8" tbg sub below donut, reseated and locked in donut. Installed 2 1/2" backpress valve. Installed 10" 5,000 psi BOP's and tested tbg to 5,000 psi for 15 minutes, held ok. Removed backpressure valve; unlocked. Pulled and removed donut. Unlatched from retrievable "D" pkr at 11,832 and began pulling tbg. Charges to WO #583437 last 24-hrs - \$1,836. Cum workover costs to date - \$3,097. JUN 1 1972

Shell-Christensen
1-33A5
(Cmt Sqz for wtr
shut-off)

TD 16,300. PB 13,740 (CIBP) Running tbg and tools. Pulled tbg and ret "D" seal assbly. Installed 5½" backpress valve, removed BOP's, and tbg spool. Installed BOP's on 5½ hanger spool and removed 5½" backpress valve. Installed test plug and chgd pipe rams from 2½ to 5½. Tested pipe and blind rams to 2500 psi for 10 min, held ok. Removed test plug. Pulled and laid down 3,000' 5½" heat string. Changed from 5½ to 2½ pipe rams and tested to 2500 psi for 10 min, held ok. Picked up ret "D" ret tool, 3 11/16 OD hyd jars, and 4 3 7/16 OD DC's. Began rng tbg and tools. Charges against O & M 583437 last 24 hrs - \$2,100. Cum workover cost to date - \$5,197. JUN 2 1972

Shell-Christensen
1-33A5

TD 16,300. PB 13,740 (CIBP). Pulling tbg. On 6/2, prepared to drill BP. Ran tbg and tools. Flanged into ret "D" at 11,832. Pulled tbg, tools, and ret "D". Top of pkr was scratched. All rubber missing from pkr. RU McC. Set CIBP on WL at 11,286. Picked up BP and worked BP down to 11,840. Found something ahead of BP from 11,286-11,840. Attempted to set BO at 11,832 but BP would not set. Ran second CIBP and set at 11,832. RD and released McC. Filled hole with 80° fresh wtr. Took 285 bbls to fill hole. Press tested to 1500 for 15 min, held ok. Bled off press and then repressured to 1200 psi during night, bled from 1200 to 600 psi in 30 min. Today's cost \$2729. Cum - \$7926. On 6/3, drilling on CIBP. Chained up tbg spool. Ran 6 1/8" bit, (4) 3½" DC's on tbg. RU power swivel and drilled 2 hrs on CIBP at 11,832. Today's cost \$2,279. Cum \$10,205. On 6/4, pulled tbg. Drilled on CIBP for 15 min; cut loose and well started to flow. Circ'd fresh wtr for 4½ hrs Killed well. Drilled and cleaned out to 13,175, recovering rubber, metal, drilling mud, oil, paraffin, and gas. Plugged tbg. Started to pull tbg and pulled 1900'. Recovered drlg mud, oil and paraffin in tbg. Today's cost - \$1,575. Cum - \$11,780. JUN 5 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut off)

TD 16,300. PB 13,740 (CIBP). Running tbg w/bit and jk sub. Pulled tbg, DC's and bit, attempting to break circ after each 30 stds coming out of hole - could not break circ at any time. Found DC's completely plugged w/paraffin, mud and LCM. Stood back collars and ran tbg w/bit and jk sub on btm. Did not run DC's due to 1½" ID for 125' of collars. Broke circ and circ bms up @ 9000' and 10,600'. JUN 6 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut off)

TD 16,300. PB 13,740 (CIBP). Running tbg and bit, circ each jt down. Ran tbg and bit to 13,135, circ btms up @ 11,800, 12,750 and 13,135. Picked up power swivel, rotated and circ from 13,308-13,314. Plug and rubber fell free @ 13,314. Ran bit to 13,335 and circ for 45 min @ 3 B/M. JUN 7 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut off)

TD 16,300. PB 13,740 (CIBP). Drlg on CIBP and jk. Circ each jt down from 13,245-13,640. Tagged jk CIBP @ 13,640. Started circ and rotating. Drld 17' in 6 hrs.
JUN 8 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut off)

TD 16,300. PB 13,741 (CIBP). Prep to run tbg and pkr. CO to 13,741 (tbg measurement). Circ 1 hr @ 3 B/M rate. Pulled tbg and bit. RU McC. Press tested lubricator and BOP's to 5000 psi for 5 min, held OK. Perf'd 1 hole each @ following intervals w/4" OD hollow carrier gun w/ 19 gr DP charges: 12,039, 12,018, 12,004, 11,993, 11,987, 11,959, 11,953, 11,942, 11,890, 11,881, 11,872, 11,865 and 11,846. Checked PBTD @ 13,741 w/WL. JUN 9 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut off)

TD 16,300. PB 13,741 (CIBP).
6/10: Well on vac. Ran tbg w/7-5/8" RTTS pkr w/125' tail, hanging pkr @ 11,930 and tail to 12,055. Sptd acid to 12,055. Set pkr and acdzd 8 perfs @ 11,942, 11,953, 11,959, 11,987, 11,993, 12,004, 12,018 and 12,039 w/5000 gal 15% HCl containing 3 gal HAI-50, 5 gal HC-2, 5 gal 5N and 20# WG-6/1000 gal acid. Used sixteen 7/8" nylon balls in 5000 acid w/150# OS-160 Wide Range Unibeads in first 2500 gal acid. Flushed w/3100 gal fresh wtr containing 20# WG-6/1000 gal wtr. Max press 5000 psi, min 3800 psi; max rate 7 B/M, min 5 B/M, avg 6 B/M. ISIP from 4700 to 1500 psi to zero in 12 min. Had no indication of ball action. Released pkr and pulled to 11,836 w/tail to 11,961. Sptd acid to 11,961. Set pkr and acdzd add'l five perfs @ 11,846, 11,865, 11,872, 11,881 and 11,890 w/15,000 gal 15% HCl w/ same additives as above, using sixty 7/8" nylon ball sealers to first 7500 gal acid containing 450# OS-160 Wide Range Unibeads and flushed w/3100 gal fresh wtr containing 60# WG-6. Max press 5000 psi, min 4200 psi; max rate 8 B/M, min 7 B/M, avg 7.5 B/M. ISIP from 4800 to 1600 to zero in 30 min. Very sli ball action at end of acid. Total load from two trtmnts 624 bbls. Filled annulus and pmpd in @ 2 B/M w/1300 psi on first job. Held 1500 psi on annulus during 2nd job. SI overnight to melt Unibeads.
(Continued)

Shell-Christensen
1-33A5

(Continued)

6/11: Running tbg. Well on vac. Released pkr and pulled pkr and tbg. RU McC and ran Model "D" pkr to 12,120'. RD McC. Started running prod eqmt as follows: Seal assembly w/six seals, 4 jts tbg, 4' sub (129'), Camco mandrel w/dummy in place, 5 jts tbg (156'), Baker Model "FH" hyd pkr, and Baker Model "FL" on-off seal connector w/2.250" plug nipple w/o plug.

6/12: Running tbg. Finished running tbg, stinging into Model "D" pkr @ 12,120 and Camco mandrel @ 11,985, FH hyd pkr top and on-off tool @ 11,823. Press tbg to 3000 psi for 20 min - no leaks. Press csg to 300 psi - leaks. Pulled tbg and picked up 5½" heat string (76 jts) w/btm @ 3000'. Removed BoP's and installed tbg spool.

JUN 12 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut-off)

TD 16,300. PB 13,741 (CIBP). MOCR. Ran 386 jts 2-7/8" EUE 8rd tbg and two 8' and 4' subs and one 6' sub, latching onto on-off connector. Spaced out tbg. Circ wtr trtd w/Visco 15C and 3601 down back side. Removed BOP and installed 5000 psi tree. Press tested tbg, tree and BP @ 13,750 to 5000 psi, no leaks. Released rig 7 PM, 6/12/72.

JUN 13 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut-off)

TD 16,300. PB 13,741 (CIBP). Well SI. Finished MOCR. MI&RU McC to perf. Could not get through Model "D" pkr @ 12,100'. RD&MO McC.

JUN 14 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut-off)

TD 16,300. PB 13,741 (CIBP). RU Ford pulling unit. MI&RU Marshall WL Service. Ran in hole w/1½" OD tools - could not get through Model "D" pkr @ 12,100'. RD&MO Marshall WL. MI Ford pulling unit.

JUN 15 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut-off)

TD 16,300. PB 13,741 (CIBP). Prep to lay down 5½" csg. Finished RU Ford. Installed 2-7/8" BP valve, removed tree and installed 10" 5000 psi BOP. Tested BOP's to 4000 psi for 15 min, held OK. Unlatched from on-off connector and pulled tbg. Installed 5½" BP valve, removed BOP and tbg hanger spool. Installed BOP on 5½" hanger spool, removed BP valve, installed test plug and changed to 5½" pipe rams. Tested BOP's to 4000 psi for 10 min, held OK. Unlatched 5½" donut. Waited 5½ hrs on tongs and slip repair.

JUN 16 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut-off)

TD 16,300. PB 13,741 (CIBP)
6/17: Running tbg w/sawtooth jt on btm. Pulled and laid down 76 jts 5½" 14# heat string. Changed pipe rams from 5-1/2" to 2-7/8". Ran tbg w/on-off tool, latching onto on-off connector. Released hydrostatic pkr and attempted to lower tbg thru Model "D" - unable to lower tbg. Set 36 pts wt on Model "D". Pulled tbg, hydrostatic pkr, KBM mandrel and seal assembly. Seal assembly marked on btm, possibly from setting on pkr. Seal sfc of on-off connector also badly scored.

6/18: Pulling tbg, locator assembly and mill. Ran tbg w/sawtooth jt on Model "D" @ 12,100'. Set down on pkr. Picked up and rotated to get into pkr. Rotated and spudded on jk for one hr. Backed out wt of string on jk four times - could not move jk. Pulled tbg and sawtooth jt. Teeth turned in on sawtooth jt. Ran tbg w/3½" OD Clusterite shoe and 8' locator w/o seals. MI&RU circ pump and power sub. Rotated and reverse circ on jk @ 100 RPM w/1000 psi torque w/zero pump press @ 1.5 B/M for 15 min. Milled thru jk and lowered tbg 6'. Set down on pkr no-go tool. Picked up 6', picking up 1 pt wt and wt returned to neutral. Ran tbg and tools up and down thru pkr 4 times. Did not tag anything or pick up any excess wt at any time. Laid down power sub.

6/19: Running prod eqmt. Finished pulling tbg, locator assembly and mill. Ran tbg w/2 seal units on locator w/5' prod tube on btm. Stung into Model "D" pkr @ 12,120' - could not get press to hold above 2400 psi. Worked seal units up and down thru Model "D" 6 times. Seal units had excess drag first two times, then worked free. Re-tested. Press tested to 4500 psi for 20 min, held OK. Pulled tbg and seal units and prod tube. Btm 5 seals and seal ret badly scored w/some pieces missing. Excess drag appeared to be small pieces of jk wedged against btm of seal assembly. Started running prod eqmt. JUN 19 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut-off)

TD 16,300. PB 13,741 (CIBP). Running prod eqmt w/on-off tool on btm and Camco mandrel 3 jts above on-off tool. Ran prod eqmt as follows: 5' prod tube, 6' locator seal assembly w/4 seal units (btm 2 units 18" apart, top two units 8" apart) w/both placed in Model "D" pkr @ 12,120', 3 jts N-80 2-7/8" tbg plus one 4' pup centralizer (total length 229'), Camco mandrel w/dummy in place and tested to 7500 psi both ways, 5 jts 2-7/8" N-80 tbg (total length 156'), 7-5/8" SH hydrostatic pkr, 33 jts 2-7/8" N-80 tbg (total length 1041'), second 7-5/8" SH hydrostatic pkr and Baker on-off connector. Stung into Model "D" @ 12,120'. Set 3 pts wt on Model "D". Set btm SH pkr w/1600 psi sfc pump press and set 1.5 pts wt on btm SH pkr. Set top SH pkr w/2700 psi sfc pump press. Tested pkrs, tbg and CIBP to 4500 psi for 15 min, held OK. Unlatched from on-off tool and pulled tbg and on-off tool. Changed pipe rams from 2-7/8" to 5-1/2" and press tested to 2500 psi for 5 min, held OK. Ran 76 jts
(Continued)

Shell Christensen
1-33A5

(Continued)

5-1/2" 14# heat string on donut and locked in. Installed 5-1/2" BP valve, changed pipe rams from 5-1/2" to 2-7/8", removed BOP's and installed 2-7/8" tbg hanger and spool. Installed BOP's, removed 5-1/2" BP valve and tested BOP's to 2500 psi for 10 min, held OK. Removed test plug and started running prod eqmt. JUN 20 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut-off)

TD 16,300. PB 13,741 (CIBP). RD Ford pulling unit. SIWH press 3200 psi. Finished running prod tbg. Latched onto on-off tool and spaced out tbg. Unlatched from on-off tool, pulled 15' up hole and circ 750 bbls 140° FW trtd w/50 gal Visco M-15-C and 75# Nalco 3601. Latched onto on-off tool and locked in tbg donut. Installed 2 1/2" BP valve and removed BOP. Removed BP valve and press tested tbg and pkr to 4600 psi for 15 min, held OK. Press tested csg to 2000 psi for 10 min, held OK. Prod string as follows: Model "D" @ 12,128', Camco mandrel @ 11,989', btm SH pkr @ 11,829', top SH pkr @ 10,799', on-off tool @ 10,798', and upper Camco mandrel @ 10,705'. Total of 386 jts 2-7/8" EUE 8rd tbg plus one ea 4', 6', 8' and 10' tbg pup. RU McC to perf. Could not get below 13,660 due to jk. Believe jk to be rubber. Worked up and down for 30 min w/rubber working up hole to 13,645 - would not go down. Perf'd one hole each @ 13,645, 13,632, 13,612, 13,590, 13,578, 13,155, 13,093, 13,044, and 12,835 w/2" carrier gun w/JRC jets. Pulled out of hole. RU Hal. Established inj rate of 1/4 bbl/min @ 5000 psi. JUN 21 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut-off)

TD 16,300. PB 13,741 (CIBP). Flowing to battery. Finished RD&MO Ford pulling unit. Released rig 8 AM, 6/21/72. Installed all sfc lines. Opened well to treater @ 1:30 PM, 6/21 on 24/64" chk. WH press dropped from 3200 to 100 psi in 15 min. SI 15 min while switching to pit. SIWH press incr from 100 to 1900 psi in 15 min. Opened well to pit @ 2 PM. Flowed wtr to pit for 2 hrs and well started making oil. SI well for 15 min while switching to treater. WH press incr from zero to 240 psi in 15 min. Opened well to treater and on 13-hr test flowed 100 BO and 4 BW w/500 MCF gas on 60/64" chk w/60 psi FTP. JUN 22 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut-off)

TD 16,300. PB 13,741 (CIBP). Prep to perf. MI&RU Marshall WL. Cut paraffin from 2300-4700 - no paraffin to 7500'. Paraffin cutter pulled w/excess drag from 7500' to 5000'. Suspect hvy mud or thin paraffin in tbg. Pulled paraffin cutter and ran in hole w/15' of 2" OD sinker bars and mech jars to 13,740'. Pulled out of hole w/tool hanging up temporarily @ 13,000'. Worked up and down from 13,000-13,045, working tool free. RD and released Marshall. Changed working press tree from 5000 psi to 10,000 psi. Opened well to prod, producing 114 BO, 21 BW and 616 MCF gas on 60/64" chk w/80 psi FTP in 15 hrs. JUN 23 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut-off)

TD 16,300. PB 13,741 (CIBP).
6/24: Prep to open well to pit to clean up. SITP
5190 psi. MI&RU OWP to perf. Ran in hole to 8600'
w/perf gun - would not go deeper. Pulled out of hole.
Flowed well to pit for 15 min, rec some rubber and cmt
in chk. Ran in w/perf gun to 13,508 and hit bridge.
Worked up and down hole from 13,250-13,508 for 2½ hrs,
working by bridge and ran gun to 13,742. Perf'd 1 hole
each @ 13,739, 13,718, 13,692, 13,670 w/2" carrier gun
w/JRC jets. RD&MO OWP. RU Hal to AT. Established inj
rate of 1/2 B/M @ 7200 psi. Press csg to 2100 psi. AT
gross perfs 12,835-13,739 w/7500 gal 15% HCl containing
3 gal HAI-50, 5 gal AS-5, 5 gal 5-N, 20# WG-7 per 1000
gal acid. Flushed w/6000 gal fresh wtr containing 20#
WG-6 per 1000 gal wtr. All fluids preheated to 95°F.
Dropped thirty 3/4" 1.1 specific gravity nylon balls,
uniformly distributed throughout acid. Max press 7400
psi, min 6400 psi. Max rate 6 B/M, min 1/2 B/M, avg
6 B/M. Had immediate press drop from 7000 to 5600 psi
to 5400 psi in 30 min. Load 323 bbls. Had 5 good press
breaks before acid reached perfs w/no press breaks or
ball action after acid reached perfs.

6/25: Flowing to battery. Opened well to pits @ 7:30
AM, 6/24/72, flowing to pits for 90 min to clean up
well. Flowed wtr for 65 min, then started flowing
partly oil. SI 20 min while switching to treater.
Well had press incr from 200 to 1900 psi in 20 min.
Opened well to battery @ 9:30 AM. Well flowed 52 BO
and 77 BW in 4 hrs. SI 3½ hrs to change from 10,000 to
5000 psi tree w/press incr from 150 to 2400 psi while
changing tree. Opened well to treater @ 5:15 PM. Well
flowed total of 270 BO and 200 BW w/unmeasured gas in 21
hrs on 24/64" chk w/350 psi FTP.

6/26: Flowing to battery. Finished hooking up all
automatic controls. On 24-hr test, flowed 438 BO and 241
BW w/376 MCF gas on 24/64" chk w/225 psi FTP and 70 psi
CP. JUN 26 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut-off)

TD 16,300. PB 13,741 (CIBP). Flowing. On 24-hr test,
flowed 558 BO and 227 BW w/254 MCF gas on 24/64" chk w/
550 psi FTP and zero CP. JUN 27 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut-off)

TD 16,300. PB 13,741 (CIBP). Flowing. On 24-hr test,
flowed 366 BO and 49 BW w/148 MCF gas on 24/64" chk w/
525 psi FTP and zero CP. JUN 28 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut-off)

TD 16,300. PB 13,741 (CIBP). Flowing. On 24-hr test,
flowed 155 BO and 17 BW w/61 MCF gas on 24/64" chk w/
60 psi FTP and zero CP. JUN 29 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut-off)

TD 16,300. PB 13,741 (CIBP). Flowing. On 24-hr
test, flowed 268 BO and 56 BW w/97 MCF gas on 16/64"
chk w/590 psi FTP and zero CP. JUN 30 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut-off)

TD 16,300. PB 13,741 (CIBP). Flowing. On 24-hr
tests, well flowed as follows: JUL 3 1972

Date	BO	BW	MCF Gas	Chk	FTP	CP
7/1	216	49	84	16/64"	500	0
7/2	191	26	62	16/64"	500	0
7/3	170	38	47	16/64"	425	0

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut-off)

TD 16,300. PB 13,741 (CIBP). Flowing. On 24-hr tests,
well flowed as follows:

Date	BO	BW	MCF Gas	Chk	FTP	CP
7/4	149	40	35	16/64"	410	0
7/5	170	16	46	16/64"	425	0

Correction to 7/3/72 report: Production for 7/3 should
have read 170 BO instead of 70 BO. JUL 5 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut-off)

TD 16,300. PB 13,741 (CIBP). Flowing. On 24-hr tests,
well flowed 136 BO and 82 BW w/42 MCF gas on 16/64" chk
w/410 psi FTP and zero CP. JUL 6 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut-off)

TD 16,300. PB 13,741 (CIBP) Prep to cut wax
and run EHP. On last 24-hr test, well flowed
100 BO, 29 BW, and 43 MCF gas on 16/64" chk
w/360 FTP and 0 CP. JUL 7 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut off)

TD 16,300. PB 13,741 (CIBP). SI for BHP. On 10-hr
test ending 7 AM 7/8/72, well flowed 50 BO and 12 BW
w/20 MCF gas on 16/64" chk w/1800 psi FTP to SI and
zero CP. 7/9 and 7/10: SI 24 hrs for BHP. JUL 10 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut off)

TD 16,300. PB 13,741 (CIBP). SI 24 hrs for BHP.
Bombs pulled - 65-hr press build-up. Final press 6921
psi and building. JUL 11 1972

Shell-Christensen
1-33A5

(Cmt sqz for wtr
shut off)

TD 16,300. PB 13,741 (CIBP). SI 24 hrs for BHP.

JUL 1 2 1972

Shell-Christensen
1-33A5

(Cmt sqz for wtr
shut off)

TD 16,300. PB 13,741 (CIBP). SI 24 hrs for BHP.

JUL 1 3 1972

Shell-Christensen
1-33A5

(Cmt sqz for wtr
shut off)

TD 16,300. PB 13,741 (CIBP). Prep to open well after
BHP. JUL 1 4 1972

Shell-Christensen
1-33A5

(Cmt sqz for wtr
shut off)

TD 16,300. PB 13,741 (CIBP).

7/15: SI 24 hrs for BHP

7/16: Flowing. On 15-hr test, well flowed 135 BO and
1 BW w/no gas measurement on 12/64" chk w/880 psi FTP
and zero CP. JUL 1 7 1972

7/17: Flowing. On 24-hr test, well flowed 181 BO and
5 BW w/75 MCF gas on 25/64" chk w/330 psi FTP and zero CP.

Shell-Christensen
1-33A5

(Cmt sqz for wtr
shut off)

TD 16,300. PB 13,741 (CIBP). Flowing. On 24-hr
test, well flowed 178 BO and 98 BW w/47 MCF gas on
24/64" chk w/300 psi FTP and zero CP. JUL 1 8 1972

Shell-Christensen
1-33A5

(Cmt sqz for wtr
shut off)

TD 16,300. PB 13,741 (CIBP). Flowing. On 24-hr
test, well flowed 147 BO and 31 BW w/41 MCF gas on
24/64" chk w/425 psi FTP and zero CP. JUL 1 9 1972

Shell-Christensen
1-33A5

(Cmt sqz for wtr
shut off)

TD 16,300. PB 13,741 (CIBP). Flowing. On 24-hr test,
well flowed 173 BO and 33 BW w/43 MCF gas on 24/64" chk
w/250 psi FTP and zero CP. JUL 2 0 1972

shut off from standard on 7/20 or 7/21

Shell-Christensen
1-33A5

(Cmt sqz for wtr
shut off)

TD 16,300. PB 13,741 (CIBP). Flowing. On 24-hr test,
well flowed 80 BO and 15 BW w/19 MCF gas on 24/64" chk
w/500 psi FTP and zero CP. Chk plugged) JUL 2 1 1972

Shell-Christensen
1-33A5

(Cmt sqz for wtr
shut off)

TD 16,300. PB 13,741 (CIBP). Flowing. On 24-hr tests,
well flowed as follows from commingled zones:

Date	BO	BW	MCF Gas	Chk	FTP	CP
7/22	82	8	27	24/64"	325	0
7/23	46	4	19	24/64"	325	0
7/24	67	5	17	24/64"	325	0

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut off)

TD 16,300. PB 13,741 (CIBP). SI. On 10-hr test,
well flowed 103 BO and 10 BW w/10 MCF gas on 16/64"
chk to SI w/SITP building to 150 psi, zero CP. JUL 25 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut off)

TD 16,300. PB 13,741 (CIBP). Cutting wax @ 5000'.
On 14-hr test, well flowed 103 BO and 14 BW w/8 MCF
gas on 40/64" chk w/100 psi FTP and zero CP. JUL 26 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut off)

TD 16,300. PB 13,741 (CIBP). Flowing. On 20-hr test,
well flowed 34 BO and 40 BW w/6 MCF gas on 24/64" chk
w/100 psi FTP and zero CP. JUL 27 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut off)

TD 16,300. PB 13,741 (CIBP). Flowing. On 24-hr test,
well flowed 49 BO and 33 BW w/22 MCF gas on 24/64" chk
w/440 psi FTP and zero CP. JUL 28 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut off)

TD 16,300. PB 13,741 (CIBP).
7/29: On 24-hr test, well flowed 26 BO and 2 BW w/9
MCF gas on 24/64" chk w/200 psi FTP and zero CP.
7/30: SI - well dead. JUL 31 1972
7/31: SI - well dead.

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut off)

TD 16,300. PB 13,741 (CIBP). SI. SITP 275 psi.
AUG 1 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut off)

TD 16,300. PB 13,741 (CIBP). SI 24 hrs. AUG 2 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut-off)

TD 16,300. PB 13,741 (CIBP). SI 24 hrs. AUG 3 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut-off)

TD 16,300. PB 13,741 (CIBP). SI 24 hours. Well dead.
AUG 4 1972

Shell-Christensen
1-33A5

(Cmt sqz for wtr
shut-off)

TD 16,300. PB 13,741 (CIBP).
8/5, 6 and 7: SI 24 hrs. AUG 7 1972

Shell-Christensen
1-33A5

(Cmt sqz for wtr
shut-off)

TD 16,300. PB 13,741 (CIBP). SI 24 hrs. AUG 8 1972

Shell-Christensen
1-33A5

(Cmt sqz for wtr
shut-off)

TD 16,300. PB 13,741 (CIBP). SI 24 hrs. AUG 9 1972

Shell-Christensen
1-33A5

(Cmt sqz for wtr
shut-off)

TD 16,300. PB 13,741 (CIBP). SI 24 hrs. AUG 10 1972

Shell-Christensen
1-33A5

(Cmt sqz for wtr
shut-off)

TD 16,300. PB 13,741 (CIBP). Flowing. On 24-hr test,
well flowed 27 BO and 34 BW w/16 MCF gas on 23/64" chk
w/40 psi FTP and zero CP.

Correction to yesterday's wire: Report should have
read as follows: Flowing. On 18-hr test, well flowed
131 BO and 106 BW w/20 MCF gas on 25/64" chk w/100 psi
FTP and zero CP. Well kicked off w/nitrogen. AUG 11 1972

Shell-Christensen
1-33A5

(Cmt sqz for wtr
shut-off)

TD 16,300. PB 13,741 (CIBP). Flowing.

8/12: On 15-hr test, well flowed 7 BO and 22 BW w/62
MCF gas on 26/64" chk to SI. Well dead.

8/13: Well dead - no production.

AUG 11 1972

8/14: On 16-hr test, well flowed 119 BO and no wtr w/
19 MCF gas on 64/64" chk w/175 psi FTP and zero CP.

Shell-Christensen
1-33A5

(Cmt sqz for wtr
shut-off)

TD 16,300. PB 13,741 (CIBP). Flowing. On 24-hr test,
well flowed 10 BO, 59 BW and 9 MCF gas on 64/64" chk w/
50 psi FTP and zero CP. AUG 15 1972

Shell-Christensen
1-33A5

(Cmt sqz for wtr
shut-off)

TD 16,300. PB 13,741 (CIBP). Flowing. On 24-hr test,
well flowed 40 BO and 14 BW w/27 MCF gas on 64/64" chk
w/50 psi FTP and zero CP. AUG 16 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut-off)

TD 16,300. PB 13,741 (CIBP). Flowing. On 24-hr test,
well flowed 43 BO and 99 BW w/29 MCF gas on 64/64" chk
w/300 psi FTP and zero CP. AUG 17 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut-off)

TD 16,300. PB 13,741 (CIBP). Flowing by heads. On 24-hr
test, well flowed 44 BO and 31 BW w/10 MCF gas on 64/64"
chk w/220 psi FTP and zero CP. AUG 18 1972.

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut-off)

TD 16,300. PB 13,741 (CIBP). Flowing. On 24-hr tests,
well flowed as follows: AUG 21 1972

Date	BO	BW	MCF Gas	Chk	FTP	CP
8/19	49	34	10	64/64"	75	0
8/20	41	52	12	64/64"	40	0
8/21	59	45	8	64/64"	40	0

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut-off)

TD 16,300. PB 13,741 (CIBP). Flowing. On 24-hr test,
well flowed 44 BO and 36 BW w/17 MCF gas on 64/64" chk
w/300 psi FTP and zero CP. AUG 22 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut-off)

TD 16,300. PB 13,741 (CIBP). Flowing. On 24-hr
test, well flowed 44 BO, 31 BW and 26 MCF gas on 64/64"
chk w/50 psi FTP and zero CP. AUG 23 1972

Shell-Christensen
1-33A5
(Cmt sqz for wtr
shut-off)

TD 16,300. PB 13,741 (CIBP). Flowing. CEMENT SQUEEZE
FOR WATER SHUT-OFF COMPLETE. On 24-hr test 12/10/71,
well prod 754 BO, 240 BW and 500 MCF gas from 11,371,
11,881, 11,889, 11,905, 11,909, 11,915, 11,922, 11,925,
11,928 and 11,931. Well died on 12/11 and SI until
remedial operations began 2/16/72. On 24-hr test ending
7 AM 8/24/72, well flowed 33 BO, 23 BW and 26 MCF gas on
64/64" chk w/326 psi FTP and zero CP from 11,846, 11,865,
11,871, 11,872, 11,881, 11,889, 11,890, 11,905, 11,909,
11,915, 11,922, 11,925, 11,928, 11,931, 11,942, 11,953,
11,959, 11,987, 11,993, 12,004, 12,013, 12,039, 12,835,
13,044, 13,093, 13,155, 13,578, 13,590, 13,612, 13,632,
13,645, 13,670, 13,692, 13,718 and 13,739.
FINAL REPORT. AUG 24 1972

THE STATE OF UTAH
DIVISION OF OIL AND GAS CONSERVATION

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.)

5. LEASE DESIGNATION AND SERIAL NO.
Patented

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Christensen

9. WELL NO.
1-33A5

10. FIELD AND POOL, OR WILDCAT
No. Uinta Basin

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SE/4 NE/4 Section 33-T1S-R5W

12. COUNTY OR PARISH
Duchesne

13. STATE
Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Shell Oil Company

3. ADDRESS OF OPERATOR
1700 Broadway, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
2033' FNL and 658' FEL Section 33

14. PERMIT NO.
43-013-30054

15. ELEVATIONS (Show whether DF, RT, OR, etc.)
6920 KB

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

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

(Other) **Repair stuck pump and inhibitor treat**
(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) **for scale**

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.)*

As per attached report.

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

SIGNED T.S. Mize TITLE Division Operations Engr. DATE 2/27/74

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

REPAIR STUCK PMP AND INHIBIT TREAT FOR SCALE

ALTAMONT

SHELL OIL COMPANY

LEASE CHRISTENSEN WELL NO. 1-33A5
 DIVISION ROCKY MOUNTAIN ELEV. 6920 KB
 COUNTY DUCHESNE STATE UTAH

FROM: 11-20 - 12-12-73

UTAH

ALTAMONT

Shell-Christensen 1-33A5
 (Repair stuck pump and
 inhibitor treat for
 scale)

"FR" TD 16,300. PB 13,741. AFE #597997 provided funds to repair stuck pump and inhibitor treat for scale.

11/11: Installing BOP. MI&RU Ford Tool Company rig #83 on 11/10/73. Latched onto rods - rods stuck. Worked rods and rec'd polish rod and one 8' and one 6' sub.

11/12: Stripping rods. Installed 7-1/16" 10,000# x 6" 5000# spool. Installed 6" BOP. Stripped out 5 jts tbg. Rod box stuck in 5th jt of tbg w/scale. Worked rods free, rec'g 1" and 7/8" rods. Scale on top 20 rods at boxes and pins.

11/13: Steaming paraffin out of tbg. Pulled and stripped 100 jts tbg. Freed rod and pump paraffin. Laid down all rods and tbg and started steaming paraffin out of tbg. NOV 20 1973

11/14: Prep to chem sqz. Picked up Baker on-off connector, Camco KBMG mandrel and ran prod eqmt as before. Spaced out tbg. Pmpd 300 bbls trtd FW in annulus and landed tbg w/3000# set-down wt.

11/15: SI. Chem sqzd w/2 dr Visco 957 blended in 25 bbls fm wtr, followed by 16 bbls diesel. Flushed w/227 bbls fm wtr. Max rate 4 B/M. Max press 2000 psi, min 1500 psi, to vac in 1 min. Picked up Axelson 2 1/2 x 1 1/2 x 20 x 23 RHB pump and ran w/same eqmt as before. Spaced out. Loaded tbg w/fm wtr. Check out pump, OK. SI well. (Reports discontinued until pump test established.)

Shell-Christensen 1-33A5
 (Repair stuck pump and
 inhibitor treat for
 scale)

TD 16,300. PB 13,741. (RRD 11/20/73) Pumping. On 24-hr tests, pmpd as follows:

Rpt Date	BO	BW	MCF Gas	SPM	FLP
11/29	0	970	68	6	30
11/30	206	43	68	10	60

NOV 30 1973

Shell-Christensen 1-33A5
 (Repair stuck pump and
 inhibitor treat for
 scale)

TD 16,300. PB 13,741. SI. Well flwd as follows:

Rpt Date	Hrs	BO	BW	MCF Gas	SPM	FLP
12/1	24	114	0	69	10	50
12/2	24	0	0	0	10	60
12/3	SI					

DEC 3 1973

Shell-Christensen 1-33A5
 (Repair stuck pump and
 inhibitor treat for
 scale)

TD 16,300. PB 13,741. SI. DEC 4 1973

Shell-Christensen 1-33A5 TD 16,300. PB 13,741. SI. DEC 5 1973
(Repair stuck pump and
inhibitor treat for
scale)

Shell-Christensen 1-33A5 TD 16,300. PB 13,741. SI. DEC 6 1973
(Repair stuck pump and
inhibitor treat for
scale)

Shell-Christensen 1-33A5 TD 16,300. PB 13,741. SI. DEC 7 1973
(Repair stuck pump and
inhibitor treat for
scale)

Shell-Christensen 1-33A5 TD 16,300. PB 13,741. SI. DEC 10 1973
(Repair stuck pump and
inhibitor treat for
scale)

Shell-Christensen 1-33A5 TD 16,300. PB 13,741. SI. DEC 11 1973
(Repair stuck pump and
inhibitor treat for
scale)

Shell-Christensen 1-33A5 TD 16,300. PB 13,741. SI. REPAIR OF STUCK PUMP AND
(Repair stuck pump and INHIBITOR TREATMENT FOR SCALE COMPLETE. Prior to work,
inhibitor treat for well SI due to stuck pump. On 24-hr test 11/30/73,
scale) pmpd 114 BO, no wtr and 69 MCF gas w/10 SPM and 50 psi
FLP from Wasatch perfs 11,846-13,739. DEC 12 1973
FINAL REPORT.

THE STATE OF UTAH
DIVISION OF OIL AND GAS CONSERVATION

SUBMIT IN TRIPLICATE*
(Other instructions on re-verse 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.)

5. LEASE DESIGNATION AND SERIAL NO.	Patented
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
7. UNIT AGREEMENT NAME	
8. FARM OR LEASE NAME	Christensen
9. WELL NO.	1-33A5
10. FIELD AND POOL, OR WILDCAT	No. Uinta Basin
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	SE/4 NE/4 Section 33-T1S-R5W
12. COUNTY OR PARISH	Duchesne
13. STATE	Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Shell Oil Company

3. ADDRESS OF OPERATOR
1700 Broadway, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
2033' FNL and 658' FEL Section 33

14. PERMIT NO. 43-013-30054

15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6920 KB

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

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

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

As per attached report.

18. I hereby certify that the foregoing is true and correct
SIGNED T.S. Mize TITLE Division Operations Engr. DATE 2/28/74

(This space for Federal or State office use)

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

CONVERT FLOWING WELL TO PUMPING WELL

ALTAMONT

SHELL OIL COMPANY

LEASE	CHRISTENSEN	WELL NO.	1-33A5
DIVISION	ROCKY MOUNTAIN	ELEV	6920 KB
COUNTY	DUCHESNE	STATE	UTAH

FROM: 9-18 - 9-19-73

UTAH

NO. UINTA BASIN

Shell-Christensen 1-33A5
(Convert flowing well to
pumping well)

"FR" TD 16,300. PB 13,741. Pumping. AFE #595624 provided funds to convert flowing well to pumping well. MI&RU Western Oilwell Service rig #17 on 9/5/73. Ran rods as follows: 184- 3/4", 94- 7/8" and 89- 1" USI high tensile rods w/2 1/2 x 1 1/2 x 20 x 23' USI RHB pump w/ single valves using carbide seat and stainless steel balls. Spaced out pump on fluid packed pump anchor set @ 9217. Hung rods on clamp. Released rig @ 6 PM, 9/6. MI and set 120" air balance pumping unit. POP on 9/11. Production as follows:

Report

Date	Hrs	BO	BW	MCF Gas	SPM	
9/13	24	196	.310	63	10	SEP 13 1973
9/14	24	248	251	70	10	
9/15	24	289	203	69	10	
9/16	24	288	209	69	10	
9/17	24	331	214	69	10	
9/18	24	309	174	69	10	

Shell-Christensen 1-33A5
(Convert flowing well to
pumping well)

TD 16,300. PB 13,741. CONVERSION OF FLOWING WELL TO PUMPING WELL COMPLETE. On 20-hr test 9/30/73, flwd 153 BO, 22 BW and no gas on 1" chk w/25 psi FTP from Wasatch perms 11,846, 11,865, 11,871, 11,872, 11,881, 11,889, 11,890, 11,905, 11,909, 11,915, 11,922, 11,925, 11,928, 11,931, 11,942, 11,953, 11,959, 11,987, 11,993, 12,004, 12,018, 12,039, 12,835, 13,044, 13,093, 13,155, 13,578, 13,590, 13,612, 13,632, 13,645, 13,670, 13,692, 13,718, 13,739. On 24-hr test 9/18/73, pmpd 288 BO, 150 BW and 69 MCF gas (GOR 240) w/2 1/2" pump x 10 SPM x 120" stroke from above Wasatch perms 11,846-13,739. FINAL REPORT. SEP 19 1973

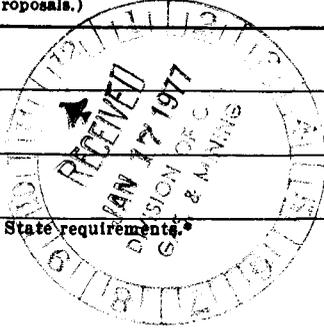
STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

PI
SUBMIT **TRIPPLICATE***
(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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. Patented
2. NAME OF OPERATOR Shell Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 1700 Broadway, Denver, Colorado 80290		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 2033' FNL & 658' FEL Section 33		8. FARM OR LEASE NAME Christensen
14. PERMIT NO.		9. WELL NO. 1-33A5
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6920 KB		10. FIELD AND POOL, OR WILDCAT North Uinta Area
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SE/4 NE/4 Section 33-T1S-R5W
		12. COUNTY OR PARISH Duchesne
		13. STATE Utah



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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input checked="" type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input checked="" type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

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

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

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING
DATE: Jan 17, 1977
BY: J. W. Brunel

See attachment

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

SIGNED

J. W. Brunel

TITLE

Div. Opers. Engr.

DATE

1/13/77

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

cc: Utah USGS w/attachment

PERF & STIM

NORTH UINTA AREA

SHELL OIL COMPANY

LEASE CHRISTENSEN

WELL NO. 1-33A5

DIVISION WESTERN

ELEV 6920 KB

FROM: 11/18/75 - 1/12/77

COUNTY DUCHESNE

STATE UTAH

UTAHALTAMONTShell-Christensen 1-33A5
(Perf & Stim)

"FR" TD 16,300. PB 13,741. AFE #416757 provides funds to perf & stim. 11/17 MI&RU Western Rig #17. Unseated pmp & attempted to pmp wtr down tbg. Pmp'd approx 2 bbls @ 2500 psi max; tbg would not bleed down. Circ'd heat string w/180 deg F wtr; still could not pmp down tbg. Cont'd circ'g & pulled approx 4200' of 1" & 7/8" rods. Unable to pull anymore due to paraffin in tbg. SI well overnight while circ'g heat string w/hot wtr.

NOV 18 1975

Shell-Christensen 1-33A5
(Perf & stim)

TD 16,300. PB 13,741. After circ'g heat string overnight, PU on remaining 3/4" rods; were able to pull approx 180' of rods. Rods stuck. Could only pmp 2 bbls in 1/2 hrs @ 5000 psi down tbg. Came off on-off connector & pulled 1 jt tbg to where the rods were stripped out. Attempted to circ down backside & thru tbg. Pmp'd 150 BW & saw no returns or press increase on tbg. Stripped out approx 500' of 3/4" rods & SI for night. (This is another example of not being able to rec w/the heat string & not being able to pmp in the tbg.)

NOV 19 1975

Shell-Christensen 1-33A5
(Perf & stim)

TD 16,300. PB 13,741. Strip'g out 3/4 rods - 3/4 rods are even difficult to pull thru paraffin. While strip'g out rods, occasional blow of oil, gas & wtr that accumulated above pmp. Required 40,000# pull to pull 1 std (2 jts tbg) off 50' of 3/4" rods on one occasion. Fin'd strip'g out rods & pmp; could not pmp out of tbg jt. SI well overnight.

NOV 20 1975

Shell-Christensen 1-33A5
(Perf & stim)

TD 16,300. PB 13,741. Fin'd POOH w/2-7/8 tbg. Installed 5-1/2" BPV. Removed BOP & tbg spool. Reinstalled & tested BOP's. MI&RU csg crew. POOH & LD 76 jts 5-1/2 csg heat string. SI overnight.

NOV 21 1975

Shell-Christensen 1-33A5
(Perf & stim)

TD 16,300. PB 13,741. PU top 1/2 Bkr on-off seal connector & RIH on 2-7/8 tbg. Latched onto on-off seal connector. Released both FN pkr & stung out of Model "D". POOH. SI overnight. PU Bkr pkr picker & ran in on 2-7/8 tbg. Drld on pkr for 4 hrs. SI overnight.

NOV 24 1975

Shell-Christensen 1-33A5
(Perf & stim)

TD 16,300. PB 13,741. Fin'g milling over 7-5/8 Model "D" pkr. POOH w/tbg, pkr picker & remains of pkr. Removed stinger from pkr picker. RIH w/6-1/2" mill on 2-7/8" tbg. SI overnight.

NOV 25 1975

Shell-Christensen 1-23A5
(Perf & stim)

TD 16,300. PB 13,740. Fin'd RIH & checked PZTD @ 13,740. POOH. LD mill. PU Bkr 7-5/8 FH pkr w/4' sub & hydro-trip sub on btm & started RIH on 2-7/8 tbg. SI overnight.

NOV 26 1975

Shell-Christensen 1-33A5
(Perf & stim)

TD 16,300. PB 13,740. Set Bkr FH hyd pkr @ 11,830, 85 jts 2-7/8 N80 tbg, +45 pmp shoe @ 9200, 292 jts 2-7/8 N80 plus one 6' tbg pup. Removed BOP's & installed 10,000# X-mas tree. Attempted to test csg to 2000 psi. Bled off to 0 in 15 mins. Released rig 6 p.m. 11/26/75.
(RDUFA)

DEC 01 1975

Shell-Christensen 1-33A5
(Perf & stim)

TD 16,300. PB 13,741. (RRD 12/1/75) MI&RU BJ Service to bullhead 41 bbis double inh densified 10% acetic acid to cover interval 13,741-11,850. Pmp'g rates were 6 B/M @ 2000 psi. Flushed w/65 bbis prod wtr & 5 bbis diesel. RD&MO BJ. End tbg press 0 psi. MI&RU OWP to perf unidirectionally w/a 2" steel, hollow-carrier, thru-tbg gun using 6.2 gm Harrison "RT" charges. Interval to be perf'd 12,461-11,893 for a total of 77 holes. Run #1 - start tbg press & end tbg press 0. Perf'd 12,461-12,198 (39 holes). POOH & SI for night.

DEC 03 1975

Shell-Christensen 1-33A5
(Perf & stim)

TD 16,300. PB 13,741. RU OWP to finish perf'g interval 13,741-11,850. Perf'd interval 12,180-11,893. All perf'g was correlated to Western Co. GR/CBL dated 10/1/71. Start & end press 0 psi. RD OWP. MI&RU BJ to AT perfs 11846-12,447 w/286 bbis gelled 15% HCl acid as follows: (All acid was made up according to prog) Placed 1200 psi on tbg-csg annulus. Pmp'd 2 bbis acid & dropped one 7/8" RCN ball sealer (sp gr 1.2). Repeated procedure 140 times for a total of 280 bbis acid & 141 ball sealers. Pmp'd 6 bbis w/o Unibeads. Started flush - pmp'd approx 20 BW & developed mechanical problems. SD & completed flush as well was on vacuum. Max rate @ 5000 psi was 12.5 B/M. Prep to retreat well.

DEC 04 1975

Shell-Christensen 1-33A5
(Perf & stim)

TD 16,300. PB 13,741. MI&RU BJ to retreat perfs 11,846-12,447 using 286 bbis gelled 15% HCl. Trtmt done as follows: (All acid made up according to prog) Held 1200 psi on tbg-csg annulus. Pmp'd 2 bbis acid & dropped one 7/8" RCN ball sealer. Repeated procedure 140 times for a total of 280 bbis acid & 141 ball sealers. Pmp'd 6 bbis w/o Unibeads. Flushed w/91 bbis prod wtr. Remainder of trtmt done according to prog. Max press 4500 psi, min 1100, avg 4000. Max rate 14 B/M, min 5, avg 13.5. ISIP 2400 psi; immediately went on vacuum. Pmp'd 30 bbis diesel down tbg. SI well; prep to run GK log.

DEC 05 1975

Shell-Christensen 1-33A5
(Perf & stim)

TD 16,300. PB 13,741. Well on vacuum. MI&RU OWP to run
GR log to detect accumulation of RA sd used in AT. POOH.
RD&MO OWP. Turned well over to prod.
(RDUFA)

DEC 08 1975

Shell-Christensen 1-33A5
(Perf & Stim)

TD 16,300. PB 13,741. (RRD 12/8/75) DEC 22 1975
12/19: Ran pump, 3/4 & 7/8 rods in hole.
12/20: Ran 1" rods.
(Report discontinued until further activity)

Shell-Christensen 1-33A5
(Perf & Stim)

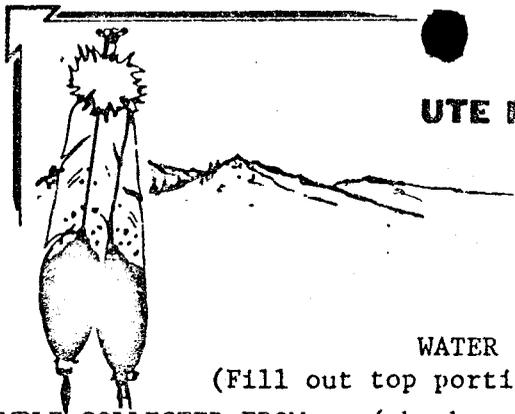
TD 16,300. PB 13,750. (RRD 12/22/75 on WO #416757)
On 24-hr test 11/17/75 prior to work, prod 47 BO & 207 BW.
On 24-hr test 12/26/75 after work, prod 86 BO & 57 BW.
FINAL REPORT

JAN 12 1977

33A5

UTE RESEARCH LABORATORIES

P. O. BOX 119
FORT DUCHESNE, UTAH 84026
PHONE 722-2254



WATER SAMPLE FOR CHEMICAL ANALYSIS

(Fill out top portion of page; all blanks must be filled in.)

SAMPLE COLLECTED FROM: (check one)

Stream

Spring

Well

City or Town water distribution system

Other (describe)

Sec. 33-15-5W

EXACT DESCRIPTION OF SAMPLING POINT:

Shell Oil Co.

Well 1-33A5

Sample No. W-1258

STATE ENGINEER'S APPLICATION OR CLAIM NO.

Wasatch Formation

SUPPLY OWNED BY:

PRESENT USE OF SUPPLY:

PROPOSED USE OF SUPPLY:

SAMPLE COLLECTED BY:

DATE:

REPORT RESULTS TO:

Address:

DO NOT WRITE BELOW DOUBLE LINE

RESULTS OF ANALYSIS		OHM Meter	
Resistivity	1.00	Turbidity Units	5
Turbidity	5	Micromhos/cm	9000
Conductivity	9000	pH	8.50
Total Dissolved Solids	7480	mg/l	
Alkalinity(total) as CaCO ₃	1360	mg/l	
Aluminum as Al	0.02	mg/l	
Arsenic as As	.0005	mg/l	
Barium as Ba	0	mg/l	
Bicarbonate as HCO ₃	1276	mg/l	
Boron as B	20.5	mg/l	
Cadmium as Cd	0	mg/l	
Calcium as Ca	10.0	mg/l	
Carbonate as CO ₃	0	mg/l	
Chloride as Cl	2029.2	mg/l	
Chromium(hexavalent) as Cr	0	mg/l	
Copper as Cu	0.03	mg/l	
Cyanide as CN		mg/l	
Fluoride as F	9.7	mg/l	
Hardness(total) as CaCO ₃	32.8	mg/l	
Hydroxide as OH	0	mg/l	
Iron (total) as Fe	0.06	mg/l	
Iron in filtered sample as Fe	0.03	mg/l	
Lead as Pb	0	mg/l	
Magnesium as Mg	1.89	mg/l	
Manganese as Mn	0.01	mg/l	
Nitrate as NO ₃	0.42	mg/l	
Phosphate as PO ₄	.015	mg/l	
Phenols as Phenol		mg/l	
Potassium as K	24.0	mg/l	
Selenium as Se		mg/l	
Silica as SiO ₂		mg/l	
Silver as Ag	0	mg/l	
Sodium as Na	1343.0	mg/l	
Sulfate as SO ₄	314	mg/l	
Surfactant as LAS		mg/l	
Zinc as Zn	0	mg/l	

Sample received on 8-14-74

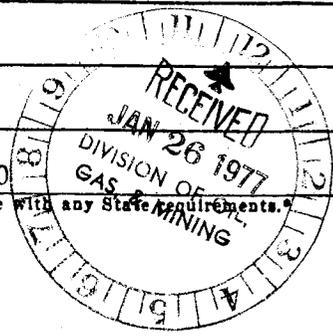
at Ft. Duchesne Salt Lake City

Cash received with sample \$ none

OIL & GAS CONSERVATION COMMISSION

SUNDRY NOTICES AND REPORTS ON WELLS

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



1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Shell Oil Company

3. ADDRESS OF OPERATOR
1700 Broadway, Denver, Colorado 80290

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
2033' FNL & 658' FEL Section 33

5. LEASE DESIGNATION AND SERIAL NO.
Patented

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Christensen

9. WELL NO.
1-33A5

10. FIELD AND POOL, OR WILDCAT
Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SE/4 NE/4 Section 33-T1S-R5W

12. COUNTY OR PARISH
Duchesne

13. STATE
Utah

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, OR, etc.)
6920 KB

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

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

(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.)*

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING

DATE: Jan 26, 1977

BY: Ph Russell

See attachment

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

SIGNED R. Plantz TITLE Div. Opers. Engr. DATE JAN 24 1977

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:
cc: Utah USGS w/attachment

CHANGE PUMP, ACID SOAK & BHPS

SHELL OIL COMPANY

FROM: 1/4 - 1/20/77

LEASE CHRISTENSEN

DIVISION WESTERN

COUNTY DUCHESNE

WELL NO.

ELEV

STATE

ALTAMONT

1-33A5

6920 KB

UTAH

UTAH

ALTAMONT

Shell-Christensen 1-33A5
(Pull rods & pmp)

"FR" TD 16,300. PB 13,750. AFE #422187 provides funds to pull & retrieve rods & pmp. SIFP 50#; SICP 0. RU CWS & HOT. Pmp'd 100 bbls hot wtr down backside & 40 bbls diesel down tbg. Unseated pmp & pull all 1" rods & 30 7/8" rods. Shut tbg & left csg open to bty. SD for night.

JAN 04 1977

Shell-Christensen 1-33A5
(Chng pmp, acid soak, BHP)

TD 16,300. PB 13,750. (AFE #422187 - chng pmp, acid soak & run BHPB) Pmp'd 100 bbls hot wtr down csg to keep rods free. Pulled all remaining 7/8" rods, 3/4" rods & pmp. RU CTU & RIH to 15,700 & spt'd 83 bbls 10% acetic acid. Flushed CT & RD CTU. SD for night.

JAN 05 1977

Shell-Christensen 1-33A5
(Chng pmp, acid soak, BHP)

TD 16,300. PB 13,750. Displ'd acid w/160 BW & backed well down w/40 bbls diesel. SOS will run BHPB.

JAN 06 1977

Shell-Christensen 1-33A5
(Chng pmp, acid soak, BHP)

TD 16,300. PB 13,750. SI for BHPS.

JAN 07 1977

Shell-Christensen 1-33A5
(Chng pmp, acid soak, BHP)

TD 16,300. PB 13,750. SI.

JAN 10 1977

Shell-Christensen 1-33A5
(Chng pmp, acid soak, BHP)

TD 16,300. PB 13,750. No report.

JAN 11 1977

Shell-Christensen 1-33A5
(Chng pmp, acid soak, BHP)

TD 16,300. PB 13,750. (AFE #422187) Pulled BHPB 1/9. 1/10 SIP 100#. Ran Axelson 1-3/4 pmp, 177 3/4" rods, 96 7/8" rods, 90 1" rods, 1 2' sub & 30' polished rod. Rod strg has Axelson S67 & Electra E rods. Hooked up WH & opened to bty. SD for night.

JAN 12 1977

Shell-Christensen 1-33A5
(Chng pmp, acid soak, BHP)

TD 16,300. PB 13,750. SIP 0. Spaced out pmp & installed sfc pmp'g equip. Turned well over to prod. Released rig 1/11/77.

JAN 13 1977

Shell-Christensen 1-33A5
(Chng pmp, acid soak, BHP)

TD 16,300. PB 13,750. On 24-hr test, prod 131 BO, 377 BW, 21 MCF gas w/100 psi.

JAN 14 1977

Shell-Christensen 1-33A5 TD 16,300. PB 13,750. On various tests, prod:

(Chng pmp, acid soak, BHP)	<u>Rept Date</u>	<u>Hrs</u>	<u>BO</u>	<u>BW</u>	<u>MCF Gas</u>	<u>Press</u>
	<u>1/14:</u>	24	0	193	21	100
	<u>1/15:</u>	24	0	344	21	90
	<u>1/16:</u>	24	146	428	21	90

JAN 17 1977

Shell-Christensen 1-33A5 TD 16,300. PB 13,750. On 24-hr test, prod 284 BO, 273 BW,
(Chng pmp, acid soak, BHP) 41 MCF gas w/90 psi.

JAN 18 1977

Shell-Christensen 1-33A5 TD 16,300. PB 13,750. On 24-hr test, prod 256 BO, 226
(Chng pmp, acid soak, BHP) BW, 41 MCF gas w/90 psi.

JAN 19 1977

Shell-Christensen 1-33A5 TD 16,300. PB 13,750. Prior to work, well was off
(Chng pmp, acid soak, BHP) prod. On 24-hr test 1/18 after work, prod 256 BO, 226 BW,
41 MCF gas w/90 psi.

FINAL REPORT

JAN 20 1977

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

SUBMIT IN TRIPPLICATE*
(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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. <u>PATENTED</u>																				
2. NAME OF OPERATOR <u>SHELL OIL COMPANY</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME																				
3. ADDRESS OF OPERATOR <u>P.O. Box 831 HOUSTON, TX 77001 ATTN: P.G. GELLING RM. #6459 WCK</u>		7. UNIT AGREEMENT NAME																				
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <u>2033' FNL + 658' FEL SEC. 33</u>		8. FARM OR LEASE NAME <u>CHRISTENSEN</u>																				
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) <u>6920' KB</u>	9. WELL NO. <u>1-33A5</u>																				
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		10. FIELD AND POOL, OR WILDCAT <u>ALTAMONT</u>																				
<table border="0"> <tr> <th colspan="2">NOTICE OF INTENTION TO:</th> <th colspan="2">SUBSEQUENT REPORT OF:</th> </tr> <tr> <td>TEST WATER SHUT-OFF <input type="checkbox"/></td> <td>FULL OR ALTER CASING <input type="checkbox"/></td> <td>WATER SHUT-OFF <input type="checkbox"/></td> <td>REPAIRING WELL <input type="checkbox"/></td> </tr> <tr> <td>FRACTURE TREAT <input type="checkbox"/></td> <td>MULTIPLE COMPLETE <input type="checkbox"/></td> <td>FRACTURE TREATMENT <input type="checkbox"/></td> <td>ALTERING CASING <input type="checkbox"/></td> </tr> <tr> <td>SHOOT OR ACIDIZE <input checked="" type="checkbox"/></td> <td>ABANDON* <input type="checkbox"/></td> <td>SHOOTING OR ACIDIZING <input type="checkbox"/></td> <td>ABANDONMENT* <input type="checkbox"/></td> </tr> <tr> <td>REPAIR WELL <input type="checkbox"/></td> <td>CHANGE PLANS <input type="checkbox"/></td> <td>(Other) <input type="checkbox"/></td> <td></td> </tr> </table>		NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:		TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>	FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>	SHOOT OR ACIDIZE <input checked="" type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>	REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <u>SE/4 NE/4 T15 R5W</u>
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:																				
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>																			
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		12. COUNTY OR PARISH <u>DUCHESNE</u>																				
		13. STATE <u>UTAH</u>																				

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

SEE ATTACHED

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 7/29/82
BY: [Signature]

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

SIGNED [Signature] TITLE DIVISION PROD. ENGINEER DATE 7-20-82
W. F. W. KELLDORF

(This space for Federal or State office use)

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

REMEDIAL PROGNOSIS
SHELL-CHRISTENSEN 1-33A5
SECTION 33, T1S, R5W
DUCHESNE COUNTY, UTAH
ALTAMONT FIELD

Pertinent Data:

Shell's Share: 100%

AFE No.:

Elevation (KB): 6920' (Datum)

Elevation (GL): 6894'

TD: 16,300'

PBTD: 13,741' (CIBP cap with cement)

Casing: 9-5/8", 47#, P-110 and S-95 at 11,100'

5-1/2", 14#, heat string to 3000'+

Liner: 7-5/8", 33.7#, S-95, 10,757'/13,806'

Packers: (Three total) Baker Model "FH" Hyd. at 10,799'

Baker Model "FH" Hyd. at 11,829'

Baker Model "D" at 12,128' with flapper

Perforations: 11,358'-11,817', 29 holes (squeezed - will not hold pressure)

11,846'-11,931', 11 holes, orig.

11,905'-11,931', 7 holes, reperfs

11,846'-12,039', 13 holes, (new 9) + 4 reperfs

12,835'-13,739', 13 holes, new

Current Status: Pumping: 20 BOPD + 280 BWPD

Cumulative: 150,000 BO + 680,000 BW, 115.0 MMCFG

Procedure:

1. MIRU. Load hole with clean produced water. Remove tree. Install and test BOPE per "BOP stack requirements" on Attachment I.
2. POOH with rods and pump.
3. Release tubing from Model "FL" on-off seal connector and POOH with tubing.
4. POOH and lay down 3000' (76 jts.) of 5-1/2" heat string.
5. RIH with 2-7/8" tubing, latch on Model "FL" on-off seal connector and POOH with Baker Model "FH" Hyd. packers, connected in tandem and set at 10,799' and 11,829' (see Attachment II - Well Diagram).
6. RIH with 6-1/2" mill and mill cement plug + CIBP at 13,740'-13,750' with hole filled with 12.0 lb/gal mud (mud weight to be increased as needed). CO to 14,670'±. POOH.
7. Run 5-1/2" casing on liner hanger setting and cementing tools as follows (bottom up):
 - a. Guide shoe on bottom.
 - b. One joint of 5-1/2", 20#, N-80 casing.

- c. Float collar.
 - d. 3900' \pm of 5-1/2", 20#, N-80 casing.
 - e. Tie-back receptacle and Baker Simplex Model "A" liner hanger (or equivalent) on top of liner.
8. Set 5-1/2" liner 10,725'/14,670' \pm (3945' \pm). Unscrew from liner top.
 9. Cement liner in place with 325 sacks class "H" cement (30% excess included) with 35% SSA-1, 1% CRF-2, 0.4% FL24, 0.25% D-Air, 0.25 lb. floccle per sack, 0.15% HR-12 or equivalent.
 10. Follow slurry with wiper plug and no more than 150 bbl. of lease water for displacement. Pull out with cementing tools. Lease water should contain 5 lb. of Tretolite Xcide 102 Biocide.
 11. WOC at least 24 hours.
 12. Drill out cement to 5-1/2" liner top at 10,725' \pm . Pressure test liner lap to 2500 psi surface pressure. If lap does not hold pressure, squeeze lap with 50 cubic feet class "H" cement with 35% SSA-1, 1% CRF-2, 0.25% D-Air per sack, 0.15% HR12 or equivalent, until pressure test is successful.
 13. Clean out cement to bottom of 5-1/2" liner and circulate hole clean with produced water. Pull out.
 14. With hole filled with clean produced water and 1000 psi surface pressure on casing, run GR-CBL-CCL from PBD to 10,700' \pm . If bond log indicates poor bonding, contact Houston Engineering.
 15. RU perforators with lubricator (tested to 3000 psi) and perforate as follows: (Depth reference is GR-BHC sonic log dated 2/22/71)
 - a. Perforate from bottom up at 3 JSPF using 4" OD casing guns with 23.0 gram charges at 120° phasing for depths listed on Attachment III.
 - b. Record and report wellhead pressure before and after each run.
 16.
 - a. If well can be controlled with water after perforating, run a 5-1/2" fullbore packer on tubing and set at 13,675' \pm . Pressure test tubing to 6500 psi.
 - b. If well cannot be controlled with water after perforating, lubricate in a 5-1/2" Model "FA-1" packer with Model "B" expendable plug in place and set at 13,675' \pm . RIH with latch in seal assembly and latch into packer. Pressure test tubing to 6500 psi. RIH with sinker bars and jars on wire-line plus knock out expendable plug in packer. Consider flowing well prior to acidizing.
 17. Acid treat perf's 13,772'-14,612' with 12,000 gal. 7-1/2% HCl acid as follows:

- a. Pump 1000 gal. 7-1/2% HCl acid.
- b. Pump 3000 gal. acid, dropping one ball sealer (7/8" RCN, 1.2 S.G.) every 67 gal.
- c. Pump 1000 gal. acid containing 1000# benzoic acid flakes.
- d. Repeat Step b. two more times and Step c. one more time for a total of three stages acid and two of diverting material (total 12,000 gal. acid and 134 ball sealers).
- e. Flush with 100 bbl. of clean produced water containing 5 gal. of Tretolite Xcide 102.

- Notes:
- (1) All acid and flush to contain 5 lb. J-120/1000 gal. acid (or equivalent) for 60% friction reduction and 1 lb. 20-40 mesh RA sand per 1000 gal. acid (no RA sand in flush).
 - (2) All acid to contain 3 gal. C-15/1000 gal. acid for 4 hours exposure at 210°F and the necessary surfactant (tested for compatibility with formation fluids).
 - (3) Maintain 2500 psi surface casing pressure during treatment.
 - (4) Pumping rates: Pump at maximum possible without exceeding 6500 psi differential pressure between tubing and casing.
 - (5) Increase amount of diverting material if necessary to obtain a gradual increase in treating pressure and/or decrease in rate.
 - (6) Record ISIP and shut-in pressure decline for at least 20 minutes.

18. Run RA log from PBD to 13,600'±.
19.
 - a. If well flows, release rig and put on production. When well can be controlled with water, move in rig and proceed to Step 20.
 - b. If well does not flow, continue with Step 20.
20.
 - a. If a 5-1/2" fullbore packer was used in Step 16a., POOH with tubing and packer.
 - b. If a 5-1/2" "FA-1" packer was used in Step 16b., POOH with tubing and seals. RIH and mill out 5-1/2" Model "FA-1" packer. Make clean out run to bottom of liner.
21. RIH with production equipment as per Attachment IV and release rig.

[Signature]
Recommended

[Signature] 2/16/82

[Signature] 2-16-82

Approved *[Signature]*

[Signature]

Date

2/22/82

BJH:SJP
2/8/82

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. PATENTED
2. NAME OF OPERATOR SHELL OIL COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 831 Houston, TX 77001 ATTN: P.G. GELING RM. # 4459 WCK		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2033' ENL + 658' FEL SEC. 33		8. FARM OR LEASE NAME CHRISTENSEN
14. PERMIT NO.		9. WELL NO. 1-33A5
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6920' KB		10. FIELD AND POOL, OR WILDCAT ALTAMOUNT
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SE1/4 NE1/4 T15 R5W
		12. COUNTY OR PARISH 18. STATE DUCHESSNE UTAH

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

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

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

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

SEE ATTACHED

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 9/21/82
BY: [Signature]

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

SIGNED [Signature] TITLE DIVISION PROD. ENGINEER DATE 9-7-82
W. F. ND KELL DORE

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

REMEDIAL PROGNOSIS

SHELL-CHRISTENSEN 1-33A5
SECTION 33, T1S, R5W
DUCESNE COUNTY, UTAH
ALTAMONT FIELD

Pertinent Data:

Elevation (KB): 6920' (Datum)
Elevation (GL): 6894
TD: 16,300'
PBSD: 14,653'
Casing: 9-5/8", 47#, P-110 and S-95 at 11,100'
Liners: 7-5/8", 33.7#, S-95, 10,757'/13,806'
5-1/2", 20.0#, N-80, 10,885/14,701'
Tubing: 2-7/8", 6.5#, N-80, 10,030±
Anchor: 9-5/8' Mechanical Set Tubing Anchor at 10,030±
Perforations: 13,772' - 14,612'; 41 intervals, 123 perforations

Procedure:

1. MIRU. Load hole with clean produced water containing 5 gal/100 bbl Tretolite X-cide 102 Biocide. Remove tree. Install and test BOP as per field specs. (See Attachment I).
2. POOH with production equipment. RIH with 4-3/4" flat bottom mill on 2-7/8" tbg. clean out to 14,653'± PBSD.

Note: Correlate work to O.W.P. G.R./CBL Log dated April 30, 1982
3. POOH W/Tbg. and flat bottom mill. RIH and set CIBP C 13,750'±. Wire-line Dump bail two sacks of sand on CIBP. POOH.
4. RIH and perforate three holes/foot at each of the 105 depths shown on Attachment II, 11,985' - 13,741' (315 holes) use 4" centralized csg. carrier gun with 23 gram charges, oriented 120° phasing. Correlate work to O.W.P. G.R./CBL Log dated April 30, 1982. Perforate from bottom up.

A. record pressure changes during and after perforating.
5. RIH with 5-1/2" Baker Model C Fullbore packer with unloading sub on 2-7/8" tubing. Set packer at 11,960'±. (Note: If high pressure is encountered after perforating, lubricate in a Model D, packer and set at 11,960'±). If well will flow, continue flow until well dies which also will help clean up the wellbore. Pressure test casing to 2500 psi.

6. Acid treat the 315 perforations from 11,985' - 13,741' with 30,000 gals of 7-1/2% HCl acid as follows.
- Pump 1,000 gallons of 7-1/2% HCl to establish injection rate.
 - Pump 4,000 gallons of 7-1/2% HCl, dropping one ball sealer (7/8" RCH with 1.2 s.g.) every 80 gallons HCl.
 - Pump 1,000 gallons of 7-1/2% HCl containing 1000# benzoic acid flakes.
 - Repeat step (b) five more times and step (c) four more times for a total of six stages and five of diverting material (total 30,000 gallons of 7-1/2% HCl and 300 ball sealers).
 - Flush with 110 bbls. of clean produced water containing 5 gals/100 Tretolite X-cide 102 Biocide.
- Notes:
- All acid and flush to contain 5# J-120/1,000 gallons 7-1/2% HCl or equivalent for \pm 60% friction reduction and 1.0# 20-40 mesh RA sand per 1,000 gallons (no RA sand in flush).
 - All acid to contain sufficient inhibitor for four hours exposure at 210° and necessary surfactant (tested for compatibility with formation fluids) + 1 gallon Nalco's Visco 4987/100 gallons acid.
 - Maintain 2500 psi surface casing pressure during treatment if possible.
 - Increase amount of diverting material if necessary to obtain a gradual increase in treating pressure and/or decrease in rate.
 - Record ISIP and size decline pressure for 5 min, 10 min, 15 min, and 20 minutes.
7. Allow well to flow until it dies. POOH with fullbore packer and tubing.
8. Run RA log from 13,750±' to 11,950±'.
9. RIH with 9-5/8" mech type tubing anchor set at 10,030'±. RIH with production equipment and pump test newly opened interval.
10. Upon pump test completion may or may not decide to mill up CIBP and commingle all intervals.

Requested by: G.K. Root 8-13-82

Approved: _____

Date

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

<p>1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/></p> <p>2. NAME OF OPERATOR Shell Oil Company ATTN: B. T. Ellison 6486 WCK.</p> <p>3. ADDRESS OF OPERATOR P. O. Box 831 Houston, Tx. 77001</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2033' FNL & 658' FEL Sec. 33</p>		<p>5. LEASE DESIGNATION AND SERIAL NO. Patented</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p> <p>7. UNIT AGREEMENT NAME</p> <p>8. FARM OR LEASE NAME Christensen</p> <p>9. WELL NO. 1-33A5</p> <p>10. FIELD AND POOL, OR WILDCAT Altamont</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 33 T1S T5W SE/4 NE/4</p>
<p>14. PERMIT NO.</p>	<p>15. ELEVATIONS (Show whether DF, RT, OR, etc.) KB 6920'</p>	<p>12. COUNTY OR PARISH Duchesne</p> <p>13. STATE Utah</p>

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

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

COMPLETED OPERATIONS

Perforated the Wasatch (13,052'-13,741') and acid treated with 30,000 gallons 7 1/2% HCL. CIBP @ 13,760'. Returned well to production. Latest test 2/4/83 Avg./Prod. 97.2 BOPD, 137.7 BWP, and 26.0 MCF gas.

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

SIGNED Bart T. Ellison TITLE Div. Prod. Engr. DATE February 10, 1983

(This space for Federal or State office use)

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

ALTIAMONT OPERATIONS
 DAILY COMPLETIONS AND REMEDIALS REPORT
 WELL HISTORY FOR WELL 413
 ISSUED 12/22/82

WELL: **CHRISTENSEN 1-3345**
 LABEL: FIRST REPORT
 AFE: 576317
 FOREMAN: BARRY THOMPSON
 RIG: NOW 17
 OBJECTIVE: CLEAN OUT PERF AND STIM
 AUTH. AMNT: 125000
 DAILY COST: 2213
 CUM COST: 2213
 DATE: 11-01-82

ACTIVITY: 11-01-82 ACTIVITY LOAD OUT TRUCKS MOVE EQUIPT TO
 02 WELL RIG UP RIG HOT OIL TRUCK TRY TO PUMP
 03 DOWN TBG TO KILL WELL AND TO CLEAN OUT TBG
 04 COULD NOT PUMP DOWN TBG TRY TO BLEED
 05 PRESS OFF WELL REMOVE 10000 LBS TREE AND INSTALL
 06 6 IN ACME BOPE RU FLOOR AND PREPARE TO PULL
 07 TBG RELEASE PKR CLOSE IN FOR NIGHT AFE 576317
 08 PROVIDES FUNDS 125000 TO CLEAN OUT PERF AND
 09 STIMULATE THE WASATCH

LABEL: -----
 DAILY COST: 4963
 CUM COST: 7176
 DATE: 11-02-82

ACTIVITY: ACTIVITY RIG UP HOT OIL TRUCK AND TRY TO PUMP
 02 DOWN CSG AT 300 DEGREE COULD NOT RESET
 03 FULLBORE PKR AND OPEN UNLOADER CONT TRYING
 04 TO PUMP DOWN CSG AND OUT TBG HAD TO CHANGE OUT
 05 2 7/8 IN TBG RAMS IN 6 IN BOP HOT OILER CONT TRYING TO
 06 PUMP DOWN CSG AND OUT TBG PIPE RAMS BLEW OUT AGAIN
 07 WAIT ON ACME TO BRING NEW RAMS CHANGE OUT
 08 SDON

LABEL: -----
 DAILY COST: 3008
 CUM COST: 10184
 DATE: 11-03-82

ACTIVITY: TRY TO PUMP DOWN TBG COULD NOT RELEASE 5 1/2 IN
 02 FULLBORE PKR RIM W/TBG TO 14500 FT POOH W/TBG
 03 UNTIL GOT TO COATED PIPE START LAYING DOWN
 04 WELL BLOWING TO CROWN OF RIG LAY DOWN 1000 FT

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 413
ISSUED 12/22/82

05 TRY TO PUMP OUT TBG COULD NOT CONT PULLING LAY
 06 DOWN APPROX 4000 FT TRY TO PUMP OUT W/HOT OIL TRUCK
 07 PUMP 100 BBLS 180 DEGREE WTR DOWN CSG AT
 08 2600 PSI HOOK UP TO TBG AND TRY TO PUMP OUT AT 6000 PSI
 09 STARTED MOVING PUMP VOLUME OF TBG AT 4000 PSI
 10 SDON

LABEL: -----
 DAILY COST: 3353
 CUM COST: 13537
 DATE: 11-04 THUR 11-07-82
 ACTIVITY: DAILY AVG FOR OCT OIL 4 WTR 6 ACTIVITY TBG AND
 02 BOP FROZEN RIG UP HOT OIL TRUCK AND THAW OUT
 03 ALSO CLEAN OIL OFF ENGINES AND FLOOR CIRC TBG
 04 CLEAN POOH LAYING DOWN COATED PIPE WELL
 05 STARTED FLOWING AGAIN CIRC TO PIT PULL 50 STDS
 06 PROD TBG SDON 11-05-82 ACTIVITY DAILY COST 5671
 07 CUM COST 19208 ACTIVITY BLED PSI OFF WELL FINISH
 08 PULLING OUT OF HOLE PKR 5 1/2 IN BAKER FULLBORE
 09 MODEL C NOT ON TBG RIG UP OWP AND RIH TAGGED PKR
 10 AT 14451 FT RD OWP MADE UP 4 3/4 IN OVER SHOT
 11 BUMPER SUB JARS AND CROSS OVERS RIH W/TBG OUT OF
 12 DERRICH START PICKING UP PROD TBG OFF RACKS
 13 SDON 11-06-82 ACTIVITY DAILY COST 3793 CUM
 14 COST 23001 BLED PSI OFF WELL CONT PICKING UP PROD
 15 TBG OFF OF PIPE RACKS TRY TO CATCH 5 1/2 IN FULLBORE
 16 PKR AT 14441 FT COULD NOT GET INTO 5 1/2 IN LINER
 17 TOP POOH W/TBG AND FISHING TOOLS BREAK DOWN 4 11/16 IN
 18 OVER SHOT MAKE UP 4 1/4 IN BOWEN OVER SHOT
 19 W/3 1/16 IN GRAPEL START BACK IN HOLE W/NEW TOOLS
 20 RIH TO APPROX 3000 FT SDON 11-07-82 SUNDAY

LABEL: -----
 DAILY COST: 3368
 CUM COST: 26369
 DATE: 11-08 THUR 11-09-82
 ACTIVITY: ACTIVITY BLED PSI OFF WELL CONT RUNNING IN
 02 HOLE W/4 1/4 IN TOOLS TAGGED LINER START PICKING
 03 UP SINGLES TAGGED FISH TRY TO CATCH CAUGHT HAD
 04 TO PULL 30000 LBS OVER NUETRAL TO GET LOOSE
 05 POOH LAYING DOWN TO 80 JTS HAD TO PUMP DOWN TBG
 06 WELL FLOWING PULL OUT OF 5 1/2 IN LINER AT

ALTA MONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 413
ISSUED 12/22/82

07 10885 FT CLOSE WELL IN SDON 11-09-82 ACTIVITY
08 DAILY COST 7035 CUM COST 33404 PUMP DOWN
09 TBG AND CSG TRY TO KILL WELL PULL OUT OF HOLE
10 W/100 STDS APPROX 5000 FT TBG IN HOLE RU HOT
11 OIL TRUCK PUMP 400 BBL 300 DEGREE WTR DOWN
12 TBG AND OUT CSG CLEAN OIL OUT OF CSG FINISH PULLING
13 OUT OF HOLE W/TBG AND FISHING TOOLS BREAK DOWN
14 TOOLS AND FISH RU OWP RIN AND SET 5 1/2 IN BAKER CIBP AT
15 13700 FT LOOK 5 HAS TO GET CIBP TO BOTTOM
16 WELL BORE SEEMS TO BE FULL OF OIL OWP POOH
17 W/SETTING TOOLS PULLING 1400 LBS MORE THAN LINE
18 AT SDON

LABEL: -----
DAILY COST: 2543
CUM COST: 35947
DATE: 11-10 THUR 11-11-82
ACTIVITY:
02 ACTIVITY BLEED PSI OFF WELL RD OWP WAIT ON 7 IN
CSG SCRAPPER MADE UP AND RIN TO APPROX 6000 FT
03 HAD TO PUSH 20 STDS W/BLOCKS OIL TOO THICK
04 WOULD NOT LET FALL RU HOT OIL TRUCK PUMP
05 100 BBL DIESEL FOLLOWED BY 400 BBL 300
06 DEGREE WTR WELL GASING BAD HOT OIL TRUCK CIRC
07 WELL THUR NIGHT SDON 11-11-82 ACTIVITY
08 HOT OILER CIRC WELL ALL NIGHT RD HOT OIL TRUCK POOH
09 W/TBG AND SCRAPPER RU OWP PERFORATE WELL AS PER
10 PROG COULD NOT GET PERF GUN INTO LINER AT 10885 FT
11 POOH W/PERF GUN RD OWP MADE UP 5 1/2 IN CSG SCRAPPER
12 FOUR STAR BOWEN SCRAPPER AND RIN W/TBG OUT OF
13 DERRICK PICK UP TBG OFF PIPE RACKS AND TAGGED
14 CIBP AT 13706 FT RU HOT OIL TRUCK AND CIRC WELL
15 W/HOT WTR ALL NIGHT SDON

LABEL: -----
DAILY COST: 10088
CUM COST: 49223
DATE: 11-12 AND 11-13-82
ACTIVITY:
02 11-12-82 ACTIVITY: 6 A.M. THRU 7 A.M. CREW TRAVEL
TO LOCATION. R.D. HOT OIL TRUCK. CIRCULATE WELL
03 ALL NIGHT W/HOT WTR. POOH W/TBG. LAY
04 DOWN EXCESS AND STAND BACK PROD. STRING. BREAK DOWN
05 5 1/2 INCH CSG. SCRAPPER. R.U. OWP AND TRY TO PERF.

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 413
ISSUED 12/22/82

06 AGAIN. OWP STILL COULD NOT GET INTO 5 1/2 INCH LINER
 07 TOP AT 10855 FT. POOH W/PERF. GUN 4 INCH O.D. R.D
 08 OWP PICK UP POWER SWIVEL CLOSE WELL IN FOR NIGHT
 09 6 P.M. THRU 7 P.M. CREW TRAVELED HOME. 11-13-82
 10 DAILY COST 2422 CUM. COST 51645. ACTIVITY: 6 A.M.
 11 THRU 7 A.M. TRAVEL TO LOCATION MEASURE AND MAKE UP
 12 TBG. TYPE 5 1/2 INCH CSG. SCRAPER. RIM CLEAN LINER
 13 FROM 10855 FT. TO APPROX. 12500 FT. WHILE CIR.
 14 DOWN TBG. AND OUT CSG. W/150 DEGREE WTR. P.O.O. LINER
 15 FOR WEEKEND. CLOSE WELL IN 5 P.M. TO 6 P.M. TRAVEL
 16 HOME.

LABEL: -----
 DAILY COST: 2666
 CUM COST: 54313
 DATE: 11-15-82
 ACTIVITY: RUN TBG OUT OF DERRICH BACK IN HOLE RIG
 02 POWER SWIVEL BACK UP AND CONT CLEANING OUT 5 1/2 IN LINER
 03 TO 13700 FT W/TBG PARAFFIN KNIFE CIRC WELL OFF
 04 BOTTOM START OUT OF HOLE W/TBG AND SCRAPER
 05 LAY DOWN EXCESS TBG AND PULL OUT OF 5 1/2 IN
 06 LINER SDON

LABEL: -----
 DAILY COST: 2088
 CUM COST: 56401
 DATE: 11-16-82
 ACTIVITY: 11-16-82 ACTIVITY: FINISH PULLING OUT OF HOLE W/PROD. TBG
 02 AND 5 1/2 INCH TBG. PARAFFIN KNIFE. BREAK DOWN TOOLS.
 03 RIG UP OWP AND RIM W/4 INCH CSG GUN. STILL COULD
 04 NOT GET INTO 5 1/2 INCH LINER AT 10855 FEET. POOH
 05 W/4 INCH GUN. PICK UP 3 1/8 INCH CSG GUN. RIM TAGGED
 06 CIRC AT 13760 FEET. START PERF. AS PER PROG. PERF.
 07 13741 FEET TO 13052 FEET 42 SELECTIONS 126 HOLES
 08 OWP REHEAD LINE AND PICK UP RUN 3 FOR 11/17 AM.

LABEL: -----
 DAILY COST: 24234
 CUM COST: 80635
 DATE: 11-17 AND 11-18-82
 ACTIVITY: 11-17-82 ACTIVITY: CHECK WELL FOR PSI. OWP CONT.
 02 PERF. AS PER PROG. (13041 FT. TO

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 413
ISSUED 12/22/82

11,985)
 03 11,985 FT. 63 MORE SELECTIONS. 189 MORE HOLES. R.D
 04 QWP MAKE UP 5 1/2 INCH MT. STATES 32 A PKR. W/PLUS
 05 45 AND UNLOADER RIM. GOT PKR. STUCK AT
 06 LINER TOP RU POWER SWIVEL TRY TO SAFETY PKR TRY JARING LOOSE
 07 PULL 50000 LBS. OVER STRING WEIGHT WOULD NOT COME LOOSE
 08 PULL UP TO 110000 LBS. LEAVE TENSION OVER NITE 11-18-82
 09 DAILY COST 7767 CUM 88402 ACT.; CK PSI AND CK IF PKR. IS STILL
 10 IN TENSION. IT WAS. R.U. NL MCCULLOUGH AND RIM
 11 W/2 7/8 CHEMICAL TBG. CUTTER. LOG COLLARS AND CUT
 12 TBG. APPROX. 11 FT. ABOVE 5 1/2 MT. STATES. PKR.
 13 POOH AND R.D MCCULLOUGH. POOH W/TBG. LAY DOWN CUT
 14 OFF JT. PICK UP 4 STAR OVERSHOT JARS AND BUMPER
 15 SUB RIM W/TBG. STOP AT 10700 FT. LEAVE WELL CLOSED
 16 IN FOR NIGHT.

LABEL: -----
 DAILY COST: 2338
 CUM COST: 90740
 DATE: 11-19 THUR 11-23-82
 ACTIVITY: CK FOR PSI RUN DOWN AND LATCH ONTO FISH COCK
 02 HYD JARS AND TRY TO JAR FISH LOOSE JAR ON
 03 FISH FOR 2 1/2 HRS SOMETHING CAME LOOSE POOH
 04 W/TBG AND FISH PKR PARTED IN MIDDLE CK W/SHELL
 05 WAIT ON NEW SHORT CATCH OVER SHOT W/3 1/8 IN
 06 GRAPLE MADE UP TOOLS AND START IN HOLE SDON
 07 11-20-82 DAILY COST 4305 CUM COST 95045 ACTIVITY
 08 CK WELL FOR PSI CONT RUNNING IN HOLE W/SHORT CATCH OS
 09 W/3 1/8 IN GRAPLE TRY TO CATCH FISH AT 10884 FT
 10 APPKUX COUNIDNT GET HOLD ON FISH TRY SEVERAL TIMES
 11 TO LATCH ONTO FISH COULD NOT GET A BIT FISH MAY
 12 HAVE FALLEN DOWN INTO LINER POOH W/TBG AND TOOLS
 13 NO RECOVERY BREAK DOWN 4 3/4 IN TOOLS MAKE UP NEW
 14 3 1/8 IN TOOLS STILL USING SHORT CATCH OVERSHOT
 15 AND 3 1/8 IN TOOLS RIM W/TBG OUT OF DERRICH STOP
 16 AT LINER TOP SDON 11-22-82 DAILY COST 5168 CUM COST
 17 100213 ACTIVITY CK FOR PSI TAGGED 5 1/2 IN LINER TOP
 18 TURN TBG DROP DOWN APPORX 5 FT TAGGED FISH TOP
 19 CAUGHT FISH TRY TO JAR LOOSE JAR ON FISH FOR 3 HRS
 20 WOULD NOT COME LOOSE BEAT DOWN RELEASE OVER
 21 SHOT POOH BREAK DOWN TOOLS RIM W/18 STDS TBG
 22 POOH LAYING DOWN MADE UP 7 5/8 IN MT STATES PKR
 23 RU FLOOR AND GET READY TO STRIP STACK OVER PKR SDON

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 413
ISSUED 12/22/82

LABEL: -----
DAILY COST: 2010
CUM COST: 102223
DATE: 11-23-82
ACTIVITY: CK FOR PSI BREAK STACK APART AT 11 IN SPOOL
02 RUN 7 5/8 IN PKR IN HOLE 1 STD STIP ROPE OVER
03 TBG TIGHTEN 11 IN SPOOL BACK DOWN R/H W/PRUD
04 TBG STOP JUST ABOVE 7 5/8 IN LINER TOP AND CIRC
05 APPROX 300 BBLs WTR R/H AND SET 7 5/8 IN PKR
06 AT 10830 FT APPROX 1/20000 LBS TENSION ON
07 TBG PRESS CSG TO 1500 LBS HELD PUMP APPROX
08 100 BBLs DOWN TBG AT 2500 PSI LAND TBG REMOVE
09 6 IN BOP AND X-OVER INSTALL AND TEST 10000 LBS TREE
10 800N

LABEL: -----
DAILY COST: 39690
CUM COST: 141913
DATE: 11-24-82
ACTIVITY: RIG UP NOWSCO HAD TO THAW OUT TREE WAS FROZEN UP
02 ACIDIZE WELL RIG DOWN NOWSCO FLOW WELL TO PIT
03 HOOK WELL INTO FLOW LINE MAX RATE 21.1 MAX PRESS 8210
04 AVG RATE 19.2 AVG PRESS 7960 MIN RATE 17.2
05 MIN PRESS 7850 ISIP 2250 5 MIN 2470 10 MIN 2360
06 15 MIN 2340 20 MIN 2270 BALLS 0 BAF 0 ACID 714
07 BBLs FLUSH 110 TOTAL 824 BBLs SDON

LABEL: -----
DAILY COST: 2303
CUM COST: 144216
DATE: 11-26 AND 11-27-82
ACTIVITY: 11-25-82 HOLIDAY. 11-26-82 ACTIVITY: THAW OUT W.H. WAIT
02 ON ORDERS. KILL WELL. CHG. OUT STACK. RELEASE 7 5/8
03 INCH PKR. AND POOH. HAD TO STRIP OFF 11 INCHES OF
04 SPOOL SO LEFT APPROX. 1000 FT. TBG. IN HOLE. KILL
05 STRING. CLOSE WELL IN FOR NIGHT. 11-27-82 DAILY COST
06 4033 CUM COST 148249 ACTIVITY: CK. PSI ON WELL.
07 FINISH PULLING OUT OF HOLE. STRIP OFF 11 INCHES
08 SPOOL CHANGE OUT TOOLS. BREAK DOWN 7 5/8 INCH
09 12 A PKR. MADE UP 7 5/8 INCH ANCHOR CATCHER AND
10 R/H TAGGED 5 1/2 INCH LINER TOP. PULL UP STRIP OFF

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 413
ISSUED 12/22/82

11 ROPE SET ANCHOR CATCHER AT 10875 FT. W/15000 LBS.
12 TENSION, LAND TBG. AND CLOSE IN FOR WEEKEND. MOVE
13 TBG. PIPE RACK AND CAT WALK OUT OF WAY. MOVE RODS
14 OVER TO WELL.

LABEL: -----
DAILY COST: 2020
CUM COST: 150275
DATE: 11-28-82
ACTIVITY: THAW OUT TBG AND TIM VALVE WAIT ON NEW ROD PUMP
02 AND RODS START IN HOLE W/RODS AND PUMP AS PER
03 ROD DESIGN SDON

LABEL: FINAL REPORT
DAILY COST: 2070
CUM COST: 152345
DATE: 11-30-82
ACTIVITY: ACTIVITY THAW OUT WELLHEAD CONT RUNNING RODS
02 SPACE OUT RODS PRESS TEST TBG AND PUMP SET
03 RODS DOWN ON POLISH ROD CLAMPS RIG
04 DOWN GOT EQUIPMENT READY TO MOVE SDON

LABEL: FINAL REPORT
DAILY COST: FINAL REPORT
CUM COST: 152345
DATE: 12-11-82
ACTIVITY: ACTIVITY RIG MOVED FROM THIS LOCATION 11-30-82
02 7 DAYS OF TEST DATA WILL FOLLOW THE FOLLOWING TEST
03 DATA IS FOR 24 HRS UNLESS OTHERWISE STATED
04 12-02 OIL 21 WTR 571 GAS 17 CHOKE 64 TBG 60 HRS 19
05 12-03 OIL 58 WTR 220 GAS 21 CHOKE 64 TBG 60
06 12-04 OIL 55 WTR 213 GAS 35 CHOKE 64 TBG 60
07 12-05 OIL 58 WTR 208 GAS 21 CHOKE 64 TBG 70
08 12-06 OIL 136 WTR 139 GAS 65 CHOKE 64 TBG 80
09 12-07 OIL 157 WTR 78 GAS 68 CHOKE 64 TBG 70
10 12-08 OIL 148 WTR 80 GAS 68 CHOKE 64 TBG 50

Shell Oil Company



P.O. Box 831
Houston, Texas 77001

December 30, 1983

Mr. Norm Stout
State of Utah
Natural Resources
Division of Oil, Gas & Mining
4241 State Office Building
Salt Lake City, UT 84114

Dear Mr. Stout:

TRANSFER OF OWNERSHIP AND ASSETS
FROM SHELL OIL COMPANY TO
SHELL WESTERN E&P INC.
STATE OF UTAH

In accordance with our recent conversation, the purpose of this letter is to reduce to writing that Shell Western E&P Inc. ("SWEPI"), a subsidiary of Shell Oil Company, has been formed. Shell Western E&P Inc. is a Delaware corporation with its offices located at 200 North Dairy Ashford Road in Houston, Texas. The mailing address is P. O. Box 831, Houston, TX 77001.

Effective January 1, 1984, Shell Oil Company will transfer portions of its oil and gas operations to Shell Western E&P Inc. and Shell Western E&P Inc. will assume all of the rights, interests, obligations and duties which Shell Oil Company currently has as a result of its exploration, development and production operations in the State of Utah.

As you are aware, Shell Oil Company is currently the holder of various permits and agency authorizations. In view of the fact that Shell Western E&P Inc. will assume all of the liabilities and obligations of Shell Oil Company's exploration and production activities within the state, we respectfully request that you transfer all permits or other authorizations from Shell Oil Company to Shell Western E&P Inc., effective January 1, 1984.

To support this request, a copy of the power of attorney appointing the undersigned as Attorney-in-Fact for Shell Western E&P Inc. is enclosed. On behalf of Shell Western E&P Inc., enclosed are recently issued Bond No. Shell 1835 and Bond No. Shell 1841. The bonds were issued by the Insurance Company of North America. In the near future, I shall request that the existing Shell Oil Company bonds be released.

It is my understanding, pursuant to our prior discussion, that this letter will comply with your requirement regarding the change in the name of the permittee.

Sufficient copies of this letter are being provided to your office so that a copy can be placed in each appropriate file. A listing of active wells is enclosed. Thank you in advance for your cooperation in this matter.

Yours very truly,

G. M. Jobe

G. M. Jobe
Administrator, Regulatory-Permits
Rocky Mountain Division
Western E&P Operations

GMJ:beb

Enclosures

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Christensen

9. WELL NO.
1-33A5

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 33 1s5w

12. COUNTY OR PARISH 13. STATE
Nueces

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
ANR Limited Inc.

3. ADDRESS OF OPERATOR
P. O. Box 749, Denver, Colorado 80201-

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

14. PERMIT NO.
43-013-30054

15. ELEVATIONS (Show whether OF, ST, OR, etc.)

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DIVISION OF OIL GAS & MINING

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

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

(Other) - Change Operator

(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.)

ANR Limited has been elected successor Operator to Utex Oil Company on the oil wells described on the attached Exhibit "A".

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

SIGNED *Don K. Nelson* TITLE *Dist. Land Mgr.* DATE *12/24/86*

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

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ORD 427805718

4241 State Office Building, Salt Lake City, Ut. 84114. 801-533-5771

OCT 02 1984

Decker

MONTHLY OIL AND GAS PRODUCTION REPORT
DIVISION OF OIL

Operator name and address:

UTEX OIL CO
% SHELL WESTERN E&P INC. *71040*

PO BOX 576
HOUSTON TX 77001
ATTN: [REDACTED] OIL ACCT.

Operator change

Utah Account No. N0840
Report Period (Month/Year) 8 / 84
Amended Report

Well Name	API Number	Entity	Location	Producing Zone	Days Oper	Production Volume Oil (BBL)	Gas (MSCF)	Water (BBL)
X BROTHERSON 1-03B4	4301330048	01525	02S 04W 3	WSTC	23	317	250	403
X MURDOCK 1-26B5	4301330049	01530	02S 05W 26	GR-WS	28	1584	2747	6039
X BROTHERSON 1-14B4	4301330051	01535	02S 04W 14	GR-WS	31	868	2489	3914
X BROTHERSON 1-11B4	4301330052	01540	02S 04W 11	GR-WS	26	1593	3097	9080
X CHRISTENSEN 1-33A5	4301330054	01545	01S 05W 33	GR-WS	31	858	70	1010
X EVANS UNIT 1-31A4	4301330067	01560	01S 04W 31	GR-WS	31	2431	57	10702
X BLEAZARD 1-18B4	4301330059	01565	02S 04W 18	WSTC	23	568	581	3422
X BROTHERSON 1-02B4	4301330062	01570	02S 04W 2	GR-WS	0	0	0	0
X ROST 1-4B3	4301330063	01575	02S 03W 4	GR-WS	21	567	304	478
X OTE UNIT 1-36A4	4301330069	01580	01S 04W 36	WSTC	22	2753	3538	907
X OTE UNIT 1-34A4	4301330075	01585	01S 04W 34	GR-WS	22	486	774	182
X MONSEN 1-21A3	4301330082	01590	01S 03W 21	GR-WS	24	648	2264	5926
X BROADHEAD 1-21B6	4301330100	01595	02S 06W 21	WSTC	31	1442	1685	435
TOTAL						14112	17931	57128

JT - 2

Comments (attach separate sheet if necessary)

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

Date Sep 28 1984

[Signature]
Authorized signature

Telephone 801-481-2262



UTAH
NATURAL RESOURCE
Oil, Gas & Mining

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

MONTHLY OIL AND GAS PRODUCTION REPORT

Operator name and address:

N0675

• ANR LIMITED INC./COASTAL
P O BOX 749
DENVER CO 80201 0749
ATTN: RANDY WAHL

Utah Account No. N0235
Report Period (Month/Year) 11 / 87
Amended Report

Well Name	Producing Zone	Days Oper	Production Volume		
API Number Entity Location			Oil (BBL)	Gas (MSCF)	Water (BBL)
BROTHERSON 1-3B4 4301330048 01525 02S 04W 3	GRRV				
MURDOCK 1-26B5 4301330049 01530 02S 05W 26	GR-WS				
MURDOCK #2-26B5 4301331124 01531 02S 05W 26	WSTC				
BROTHERSON 1-14B4 4301330051 01535 02S 04W 14	GR-WS				
BROTHERSON 1-11B4 4301330052 01540 02S 04W 11	GR-WS				
BROTHERSON #2-11B4 4301331078 01541 02S 04W 11	WSTC				
CHRISTENSEN 1-33A5 4301330054 01545 01S 05W 33	GR-WS				
BLEAZARD 1-18B4 4301330059 01565 02S 04W 18	WSTC				
BLEAZARD #2-18B4 4301331025 01566 02S 04W 18	WSTC				
BROTHERSON 1-02B4 4301330062 01570 02S 04W 2	GR-WS				
RUST 1-4B3 4301330063 01575 02S 03W 4	GR-WS				
RUST #2-36A4 4301331092 01577 01S 04W 36	WSTC				
UTE UNIT 1-36A4 4301330069 01580 01S 04W 36	WSTC				
TOTAL					

Comments (attach separate sheet if necessary) _____

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

 Authorized signature _____ Telephone _____

ANR

ANR Production Company
a subsidiary of The Coastal Corporation

012712

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JAN 25 1988

DIVISION OF
OIL, GAS & MINING

January 19, 1988

Natural Resources
Oil, Gas & Mining
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Attention: Ms. Lisha Romero

This letter includes the information you requested on January 12, 1988 concerning the recent merger of ANR Limited, Inc. into ANR Production Company. Effective December 31, 1987 (December, 1987 Production), ANR Limited, Inc. merged into ANR Production Company; and henceforth, will continue operations as ANR Production Company.

N0675 ←

↗ N0235

ANR Production Company will begin reporting and remitting the Utah Conservation and Occupation Taxes effective December, 1987 production for leases previously reported by ANR Limited, Inc. (Utah Account No. N-7245). ANR Production Company will use the new Utah Account No. N-0675, as assigned by the State of Utah.

Please contact me at (713) 877-6167 if I can answer any questions on this matter.

Very truly yours,

Roger W. Sparks
Roger W. Sparks
Manager, Crude Revenue Accounting

The computer shows the ANR Limited wells listed under account no. N0235.
DTS
1-26-88

CC: AWS

CTE:mmw

Lisha,
I don't see any problem w/this.
I gave a copy to Arlene so she could check on the bond situation. She didn't think this would affect their bond as the bond is set up for Coastal and its subsidiaries (ANR, etc.)
No Entity Number changes are necessary. DTS 1-26-88

*AMENDED REPORT
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
Use "APPLICATION FOR PERMIT—" for

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NOV 07 1988

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. Patented
2. NAME OF OPERATOR ANR Production Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 749, Denver, Colorado 80201-0749		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2033' FNL & 658' FEL		8. FARM OR LEASE NAME Christensen
14. PERMIT NO. 43-013-30054		9. WELL NO. 1-33A5
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6920' KB		10. FIELD AND POOL, OR WILDCAT Altamont
		11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA Section 33, T1S-R5W
		12. COUNTY OR PARISH Duchesne
		13. STATE Utah

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

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

Proposed Procedure:

- MIRU. POOH w/rods & tbg.
- PU 7-5/8" cmt retainer and RIH w/tbg. Set retainer @ 10,800'. Pump 100 sxs cl "H" cmt below CICR & spot 25 sxs cmt on top.
- Circ. hole w/9.5#/gal mud.
- ~~Spot 70 sx cmt plug fr 6710-6910'. See attached letter.~~
- Spot 70 sx cmt plug fr 200' to surface.
- Run 1" pipe & cmt ~~9-5/8" x 13-3/8"~~ & 13-3/8" x 20" annulus from 200' to surface (approx. 235 sx total).
- Weld cap on. Set dry hole marker per State of Utah regulations.

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

SIGNED: Eileen Danni Dey TITLE: Regulatory Analyst DATE: November 3, 1988

(This space for Federal or State office use)

TITLE _____

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 1-20-89
BY: John R. Davis

See Instructions on Reven

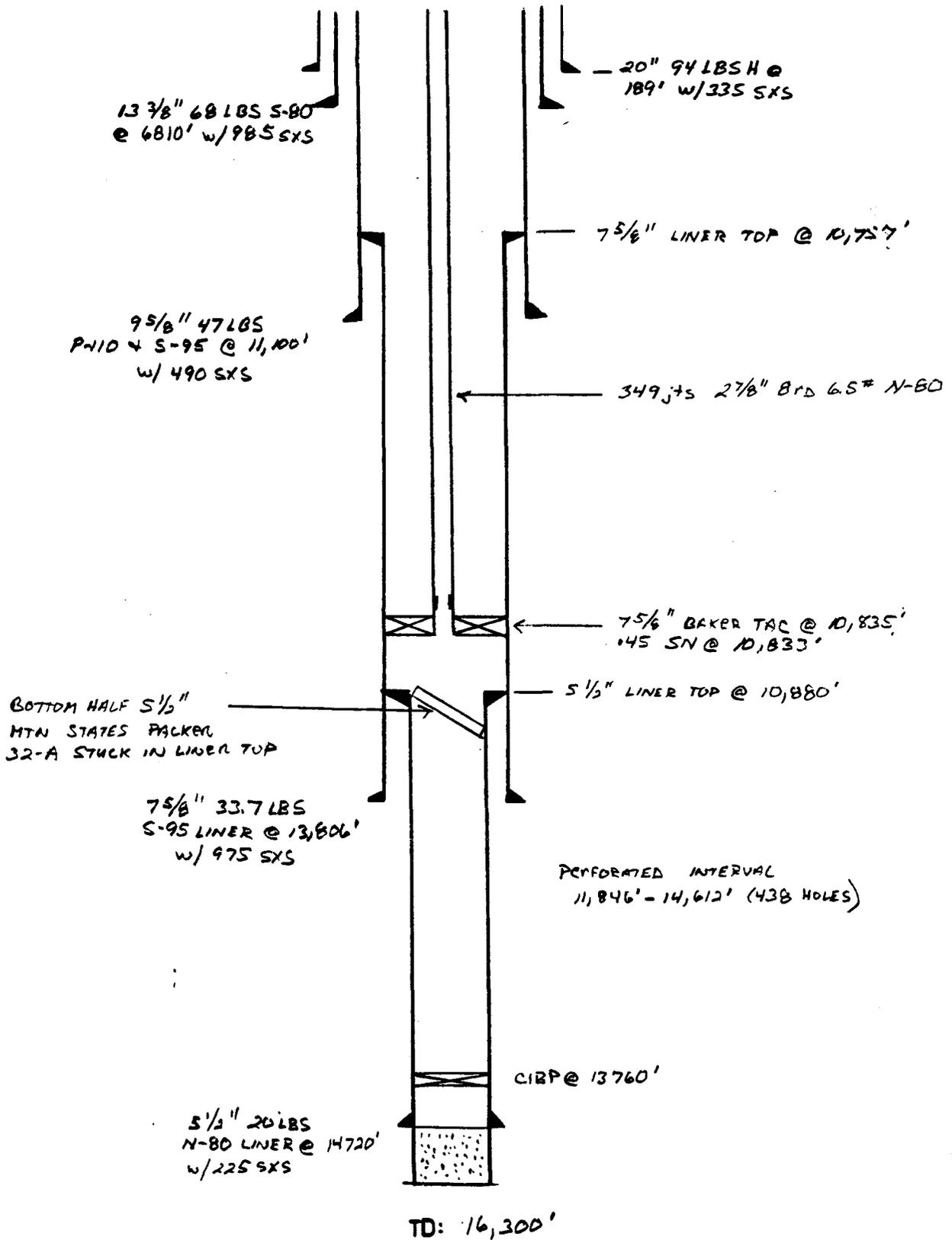
CONDITIONS OF APPROVAL FOR PLUGGING AND ABANDONMENT
Christensen 1-33A5 Well
November 9, 1988

1. The operator shall notify the Division of Oil, Gas and Mining at least 24 hours prior to the commencement of plugging and abandonment operations to allow for witnessing of operations by a Division representative.

OI3/9

CHRISTENSEN #1-3345
SECTION 33, T1S, R5W

10/17/88





State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangertter

Governor

Dee C. Hansen

Executive Director

Dianne R. Nielson, Ph.D.

Division Director

355 West North Temple

3 Triad Center, Suite 350

Salt Lake City, Utah 84180-1203

801-538-5340

January 20, 1989

Mr. Vince Guinn
ANR Production Company
P.O. Box 749
Denver, Colorado 80201-0749

Dear Mr. Guinn:

Re: Approvals of Plugging and Abandonment Procedures

Based on our telephone conversation of January 18, 1989, I have reviewed the plugging and abandonment procedures which you submitted for the Tew #1-10B5 well located in Section 10, Township 2 South, Range 5 West, and the Christensen #1-33A5 well located in Section 33, Township 1 South, Range 5 West, Duchesne County, Utah.

For the Tew #1-10B5 well, the following changes are acknowledged and approved:

1. The lease designation has been changed to "Fee" to reflect private ownership of the lease.
2. Step 4 of the procedure has been changed to allow cutting and pulling the 7" casing string at approximately 7000'. A cement plug will then be set to adequately cover the 7" casing stub, the 9-5/8" casing shoe, and to squeeze a small amount of cement in the 7" and 9-5/8" casing annulus.

For the Christensen #1-33A5 well, the following change is acknowledged and approved:

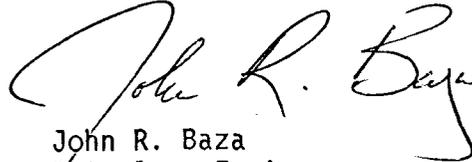
1. Step 4 of the procedure has been changed to allow cutting and pulling the 9-5/8" casing string at approximately 6800'. A cement plug will then be set to adequately cover the 9-5/8" casing stub, the 13-3/8" casing shoe, and to squeeze a small amount of cement in the 9-5/8" and 13-3/8" casing annulus.

As a condition of both approvals, the operator shall notify the Division of Oil, Gas and Mining at least 24 hours prior to commencement of plugging and abandonment operations to allow for witnessing by a Division representative.

Page 2
Mr. Vince Guinn
January 20, 1989

I hope this adequately responds to your request. Please contact me again if you have any additional questions or concerns.

Sincerely,

A handwritten signature in cursive script that reads "John R. Baza". The signature is written in dark ink and is positioned above the typed name and title.

John R. Baza
Petroleum Engineer

Enclosures
cc: R. J. Firth
J. L. Thompson
Well files
OI2/162-163

well file
fow

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

COMPANY: ANR Production COMPANY MAN: Bob Lewis
 WELL NAME: Christensen 1-33A5 API #: 43-013-30054
 QTR/QTR: SE/NE SECTION: 33 TWP: 1S RANGE: 5W
 CONTRACTOR: Western Oil Well Ser. Rig 12 PUSHER/DRLR: Bob Hoaster
 INSPECTOR: JAM DATE: 9/22/89 OPERATIONS: P & A
 SPUD DATE: _____ TOTAL DEPTH: _____

DRILLING AND COMPLETIONS

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

PLUGGING AND ABANDONMENT

PRODUCING FM(S): _____

PLUGS:	TYPE/SIZE	INTERVAL
	<u>Mt. States Oil Tool CICK 9 5/8"</u> <u>(100cks. CG + D-13 below 25 sks above)</u>	<u>10,789</u>
	<u>70 sks Class G</u>	<u>6910-6714</u>
	<u>70 sks Class G</u>	<u>Surface</u>

PERFORATIONS: _____

CASING SIZE: 9 5/8 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: pumped 100 sks CG below returns PO of net, + dump 25 sks on net. Pull 7 jts
2 3/8" tubg = circ 10.2 ppg mud. Pulled 12 jts to 6910' pumped 200' plug (70 sks)
CG + Pull 12 jts SWIFN. 9/23/89 Pulled to surface pumped 70 sk plug at
surface. Annulus would not take any comb. welded ^{plate} ~~plate~~ over surface flange

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

8

5. LEASE DESIGNATION & SERIAL NO.

Patented

6. IF INDIAN ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS

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

RECEIVED
OCT 23 1989

UNIT AGREEMENT NAME

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
ANR Production Company

8. FARM OR LEASE NAME

Christensen

3. ADDRESS OF OPERATOR
P. O. Box 749, Denver, Colorado 80201-0749

9. WELL NO.

1-33A5

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

10. FIELD AND POOL, OR WILDCAT

Altamont

At surface 2033' FNL & 658' FEL, Section 33-T1S-R5W

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

Section 33, T1S-R5W

14. API NO.
43-013-30054

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
6920' KB

12. COUNTY

Duchesne

13. STATE

Utah

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)

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

APPROX. DATE WORK WILL START _____

DATE OF COMPLETION 9/23/89

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.)

* Must be accompanied by a cement verification report.

Well was plugged and abandoned 9/23/89. Please see attached chronological report.

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

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

SIGNED Brenda W. Swank TITLE Regulatory Analyst DATE 10/19/89
 Brenda W. Swank

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

Page 1

CHRISTENSEN #1-33A5 (P&A)
ALTAMONT/BLUEBELL FIELD
DUCHESNE COUNTY, UTAH
WI: 52.6050% ANR AFE: 62500
TD: 16,300'
CSG: 5-1/2" LINER @ 10,880'-14,720'
PERFS: 11,846'-14,612' (WASATCH)
CWC(M\$): \$40.0 (-36.8M\$ W/SALV)

9/19/89 MIRU. POOH w/rods.
DC: \$552 TC: \$552

9/20/89 Rel TAC. Rods prtd. Fish & finish LD rods & pump. Prep to pull tbg.
DC: \$4,491 TC: \$5,043

9/21/89 Pmpg cmt. Fin POOH w/tbg. PU & RIH w/mechanical cmt ret. Set ret @
10,789'. Prep to pmp cmt.
DC: \$3,953 TC: \$8,996

9/22-23/89 Pmp 125 sx Cl "G" cmt below CICR. Spot 25 sxs on top CICR. Circ hole
w/780 bbls 10# mud. POOH to 6910'. Spot cmt plug @ 6710'-6910'. POOH to
4000'. Press tst 13-3/8" csg to 2300#. Bled off 550#/15 mins. POOH
w/2-7/8" tbg. Pmp 70 sxs Cl "G" cmt dwn 9-5/8" csg. ND BOPS. Weld on
DHM. RDSU. P&A complete 5:00 p.m., 9/23/89. Drop from report.
DC: \$17,306 TC: \$26,302

PRODUCING STATUS: Plug & Abandon
 WELLHEAD WORKING PRESSURE: _____

DOWNOLE SCHEMATIC	
LEASE:	<u>Chapman</u>
WELL #:	<u>1-3315</u>
FIELD:	<u>W. 11A MOW.</u>
LOCATION:	<u>S 33, T 15 R 5 E</u>
COUNTY/STATE:	<u>Duchesne W.V.</u>
T.D.:	<u>14300'</u>
P.B.T.D.:	<u>13260'</u>
PERFS:	_____
PROD. FORM(S):	<u>W. 11A MOW.</u>
DATE:	<u>3/8/90 BY: R. J. P.</u>

RECEIVED
 MAR 12 1990
 DIVISION OF
 OIL, GAS & MINING

KB ELEVATION: _____

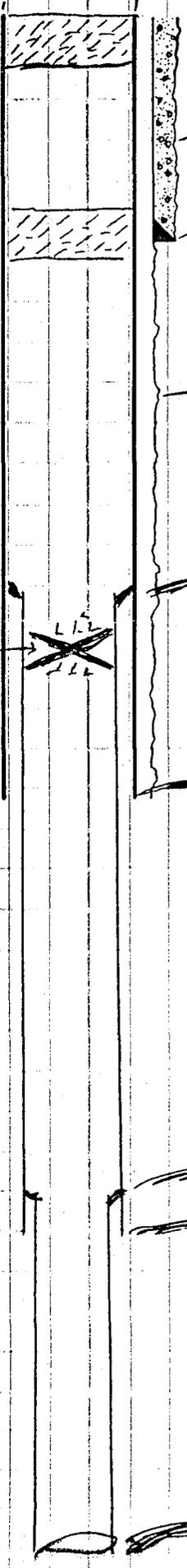
FORM. TOPS PIPED PLATS - welded on 9 5/8.

200' C.M.C.
Surf-200'

200' C.M.C.
6700'-6900'

C.M.T. Ref.
10789'
755x/505x

ITEM, QUANTITY, DEPTHS, GRADE, WEIGHT, CPLG, Etc.	O.D.	I.D.
HOLE SIZE: _____"		
SURFACE CASING: O.D. <u>12 3/4</u> WEIGHT(S) <u>68 #</u> GRADE(S) <u>S 80</u> , CPLG _____ SET AT <u>6810'</u> W/ <u>9 5/8 SX</u>		
HOLE SIZE: _____"		
<u>7 5/8 Line & Tap @ 10750'</u>		
<u>9 5/8-47 # @ 11,100' 490 SX</u>		
<u>5 1/2 Line & Tap @ 10880'</u>		
<u>7 5/8-33.7 # @ 13806' 975 5x5</u>		
<u>5 1/2-20 # @ 14770' 225 5x5</u>		



OILFIELD SERVICES
 INDUSTRIAL SERVICES

DSI SERVICE ORDER
 RECEIPT AND INVOICE NO.
 15-03-6391

DSI SERVICE LOCATION NAME AND NUMBER
 General 1104 45-03

CUSTOMER'S NAME: ANR LTD.
 ADDRESS:
 CITY, STATE AND ZIP CODE:

TYPE SERVICE CODE: 295
 BUSINESS CODES:
 WORKOVER W
 NEW WELL N
 OTHER

API OR IC NUMBER:
 IMPORTANT: SEE OTHER SIDE FOR TERMS & CONDITIONS
 ARRIVE LOCATION: MO. 9, DAY 22, YR. 79, TIME 0935

DSI will furnish and Customer shall purchase materials and services required in the performance of the following SERVICE INSTRUCTIONS or DSI INDUSTRIAL SERVICE CONTRACT NO. _____ in accordance with the terms and conditions as printed on the reverse side of this form.

SERVICE ORDER RECEIPT
 I certify that the materials and services listed were authorized and received and all services performed in a workmanlike manner and that I have the authority to accept and execute this document.

Plug us 19 125sk @ 10789 - 70sk @
 6900 - 6700

JOB COMPLETION: MO. 9, DAY 22, YR. 79, TIME 1930

STATE: Utah
 CODE: _____ COUNTY/PARISH: Duchesne
 CODE: _____ CITY: _____

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE:
 SHIPPED VIA O/S

WELL NAME AND NUMBER / JOB SITE: Christensen 1-33A5
 LOCATION AND POOL / PLANT ADDRESS: Sec 33 T15 R5W

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
049262-000	Pump Charge Depth to 9000	ea	1	2946.00	2946.00
049262-001	Additional ft. below 9000'	ft	1789	.65	1162.85
059200-002	Mileage 1 Unit.	mi.	65	2.40	156.00
049102-000	2-1/2" Day Charge 235 Ton 65 mi.	Tonn.	1528	.80	1222.40
049100-000	Service Charge	unit	287	1.08	309.96
048019-000	Cint Bulk Unit 2nd/ or 100.	Hr.	14	45.00	630.00
059640-000	#ACR Cmt Recorder	ea	1	110.00	110.00
140007-000	D-900 G 1000 ft	sk	285	8.10	2308.50
067005-100	S-L Valve	lb	132	.32	42.24
045023-000	D-13 4' cord.	lb	12	1.10	13.20
048020-000	Cmt Pump Additional Hrs.	Hr	4	245.00	980.00
102476-000	Service Supervisor	Hr	4	40.00	160.00
102476-001	Exp Operator x 2	Hr.	8	30.00	240.00
SUB TOTAL					

Field Est. Loss discount: \$7,196.80

LICENSE/REIMBURSEMENT FEE:
 REMARKS: Blank for printing D-S
 STATE: _____ % TAX ON \$
 COUNTY: _____ % TAX ON \$
 CITY: _____ % TAX ON \$
 SIGNATURE OF DSI REPRESENTATIVE: Joe Reese
 TOTAL \$

DS 496 PRINTED IN U.S.A.

WELL NAME AND NO. LOCATION (LEGAL) FIELD-POOL FORMATION COUNTY/PARISH STATE API. NO.

RIG NAME: WELL DATA: BIT SIZE CSG/Liner Size TOTAL DEPTH WEIGHT ROT CABLE FOOTAGE MUD TYPE GRADE MUD DENSITY LESS FOOTAGE SHOE JOINT(S) MUD VISC. Disp. Capacity

NAME AND ADDRESS ZIP CODE

SPECIAL INSTRUCTIONS

Table with columns for Floor, Shoe, Type, Depth

IS CASING/TUBING SECURED? YES NO LIFT PRESSURE PSI CASING WEIGHT SURFACE AREA

Head & Plugs TBG D.P. SQUEEZE JOB Double Single Swage Knockoff THREAD TUBING VOLUME CASING VOL. BELOW TOOL BOT DEPTH TOTAL ANNUAL VOLUME

ROTATE RPM RECIPROCATE FT No. of Centralizers

TIME PRESSURE VOLUME PUMPED BBL JOB SCHEDULED FOR TIME DATE ARRIVE ON LOCATION TIME DATE LEFT LOCATION TIME DATE

Main data table with columns for Time, Pressure, Volume Pumped, Job Scheduled, Arrive on Location, Left Location, and Service Log Detail

REMARKS

Table with columns for System Code, No. of Sacks, Yield Cu. Ft/Sk, Composition of Cementing Systems, Slurry Mixed Bbls, Density

BREAKDOWN FLUID TYPE VOLUME DENSITY PRESSURE MAX. MIN. THESITATION SQ. RUNNING SQ. CIRCULATION LOST YES NO Cement Circulated To Surf. YES NO

DOWELL SCHLUMBERGER INCORPORATED

WELL NAME AND NO. **Christman 1-33A5**
 LOCATION (LEGAL) **S 23 T 15 R 10**
 FIELD-POOL **Attendant Talmage**
 FORMATION **Top Job**
 COUNTY/PARISH **Duchesne** STATE **Utah** API. NO. **-**

RIG NAME: **Western Well Service #12**
 WELL DATA: **WESTERN** BOTTOM TOP
 BIT SIZE **9 5/8** CSG/Liner Size **13 3/8** **20"**
 TOTAL DEPTH **217** WEIGHT **1.8** **20**
 ROT CABLE FOOTAGE **11150** **0.40** **100**
 MUD TYPE **100** GRADE
 BHST BHCT THREAD
 MUD DENSITY **8.3** LESS FOOTAGE SHOE JOINT(S)
 MUD VISC. Disp. Capacity

NAME **ANR Ltd.**
 AND
 ADDRESS
 ZIP CODE

SPECIAL INSTRUCTIONS
Set Port Plug at 200' to Surf
1 1/2" pressure up to 2000' then
breakoff

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

STAGE TOOL	TYPE		STAGE TOOL	TYPE	
	DEPTH			DEPTH	
	TYPE			TYPE	
	DEPTH			DEPTH	

Head & Plugs TBG D.P. SQUEEZE JOB
 Double SIZE **2 7/8** JOINT TYPE
 Single WEIGHT **1.5** DEPTH
 Swage GRADE **11-80** TAIL PIPE: SIZE DEPTH
 Knockoff THREAD **2** TUBING VOLUME **1.1** Bbls
 TOP OR W NEW USED CASING VOL. BELOW TOOL - Bbls
 BOT OR W DEPTH **200'** TOTAL - Bbls
 ANNUAL VOLUME **13** Bbls

IS CASING/TUBING SECURED? YES NO
 LIFT PRESSURE **3100** PSI CASING WEIGHT + SURFACE AREA (3.14 x R²)
 PRESSURE LIMIT **3100** PSI BUMP PLUG TO **200** PSI
 ROTATE **3100** RPM RECIPROCATE **FT** No. of Centralizers

JOB SCHEDULED FOR TIME: **0830** DATE: **9-23** ARRIVE ON LOCATION TIME: **0815** DATE: **9-23** LEFT LOCATION TIME: DATE: **9-23**

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR TIME: 0830 DATE: 9-23			ARRIVE ON LOCATION TIME: 0815 DATE: 9-23			LEFT LOCATION TIME: DATE: 9-23		
	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY						
0913	-	-	18	0	2.5	Mid	10	PRE-JOB SAFETY MEETING Hookup 9 5/8 - 2 7/8 Ann.					
0917	-	10	0	18	5	"	"	Pump to fill Ann.					
0923	-	520	0	18				Slow Rate					
0930	-	20	21	0	3	mid	10	Shutdown, Test 0 5/8" casing and shut.					
0930	-	2200	22	15				Hookup to 13 3/8 - 9 5/8 Ann.					
0938	-	2200						Pump to test 13 3/8					
0944	-	1800						Slow Rate, Shutdown.					
0945	-	2130			15	"	"	Test casing					
0958	-	1730						Leakoff was A.C. 1" Ball Valve Closed					
1000	-							Pump up					
1005	-				1.1	4.0	8.3	Same as before, good.					
1015	-		16	10	1.1	Cut	15.8	Bleed off Rig Pulling Tub. to 200' to Sur					
1024	-		0	26				5+ to bleed					
								shut down. Cut to Surface.					
								Top Complete.					

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED		
					BBLs	DENSITY	
1.	20	1.15	G+			18	15.8
2.							
3.							
4.							
5.							
6.							

BREAKDOWN FLUID TYPE **—** VOLUME **—** DENSITY **—** PRESSURE **—** MAX. **—** MIN. **—**

HESITATION SQ. RUNNING SQ. CIRCULATION LOST YES NO Cement Circulated To Surf. YES NO Bbls.

BREAKDOWN **—** PSI FINAL **—** PSI DISPLACEMENT VOL. **—** Bbls TYPE OF WELL OIL GAS STORAGE INJECTION BRINE WATER WILDCAT

Washed Thru Perfs YES NO TO **—** FT MEASURED DISPLACEMENT **—** WIRELINE

PERFORMATIONS TO **—** TO **—** CUSTOMER REPRESENTATIVE **Bob Lewis** DS SUPERVISOR **Joe Reese**