

FILE NOTATIONS

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

Checked by Chief *MB*
Approval Letter *W. UNW - 4-24-69*
Disapproval Letter ✓

COMPLETION DATA:

Date Well Completed *5-28-69*
OW..... WW..... TA.....
GW..... OS..... PA. ✓

Location Inspected
Bond released
State or Fee Land

LOGS FILED

Driller's Log. *6-9-69*
Electric Logs (No.) *2*
E..... I..... Dual I Lat. ✓ GR-N..... Micro.....
BHC Sonic GR. ✓ Lat..... Mi-L..... Sonic.....
CBLog..... CCLog..... Others.....

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

(Other instructions on reverse side)

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 Kenneth D. Luff

3. ADDRESS OF OPERATOR
 210 Patterson Building, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface
 2064 fnl x 1979 fel SE SW NE
 At proposed prod. zone
 Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 25 miles Vernal, Utah

10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 2064

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1600

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 5090 ungraded ground

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#	150	Circulate (150 sacks)
7 7/8"	5 1/2"	14#	3600	280 sacks

5. LEASE DESIGNATION AND SERIAL NO.
 U-02651-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
 Walker Hollow

8. FARM OR LEASE NAME
 Walker Hollow-McLish

9. WELL NO.
 7

10. FIELD AND POOL, OR WILDCAT
 Walker Hollow

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec. 8, T7S-R23E

12. COUNTY OR PARISH 13. STATE
 Uintah Utah

16. NO. OF ACRES IN LEASE 17. NO. OF ACRES ASSIGNED TO THIS WELL
 640 80

19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS
 5600 Rotary

22. APPROX. DATE WORK WILL START*
 May 1, 1969

Drill 12 1/4" hole to a depth of 150' and set 150' of 8 5/8" surface casing. Drill 7 7/8" hole with mud to a depth of 5600', run IES and Sonic Log and drill stem test potential oil and/or gas zones. If test, logs and other data indicate commercial production, run 5 1/2" production casing; if not, plug and abandon well as per instructions from State Engineer.

APPROVED BY DIVISION OF
 OIL & GAS CONSERVATION
 DATE 4-29-69
 BY OB Feight

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.

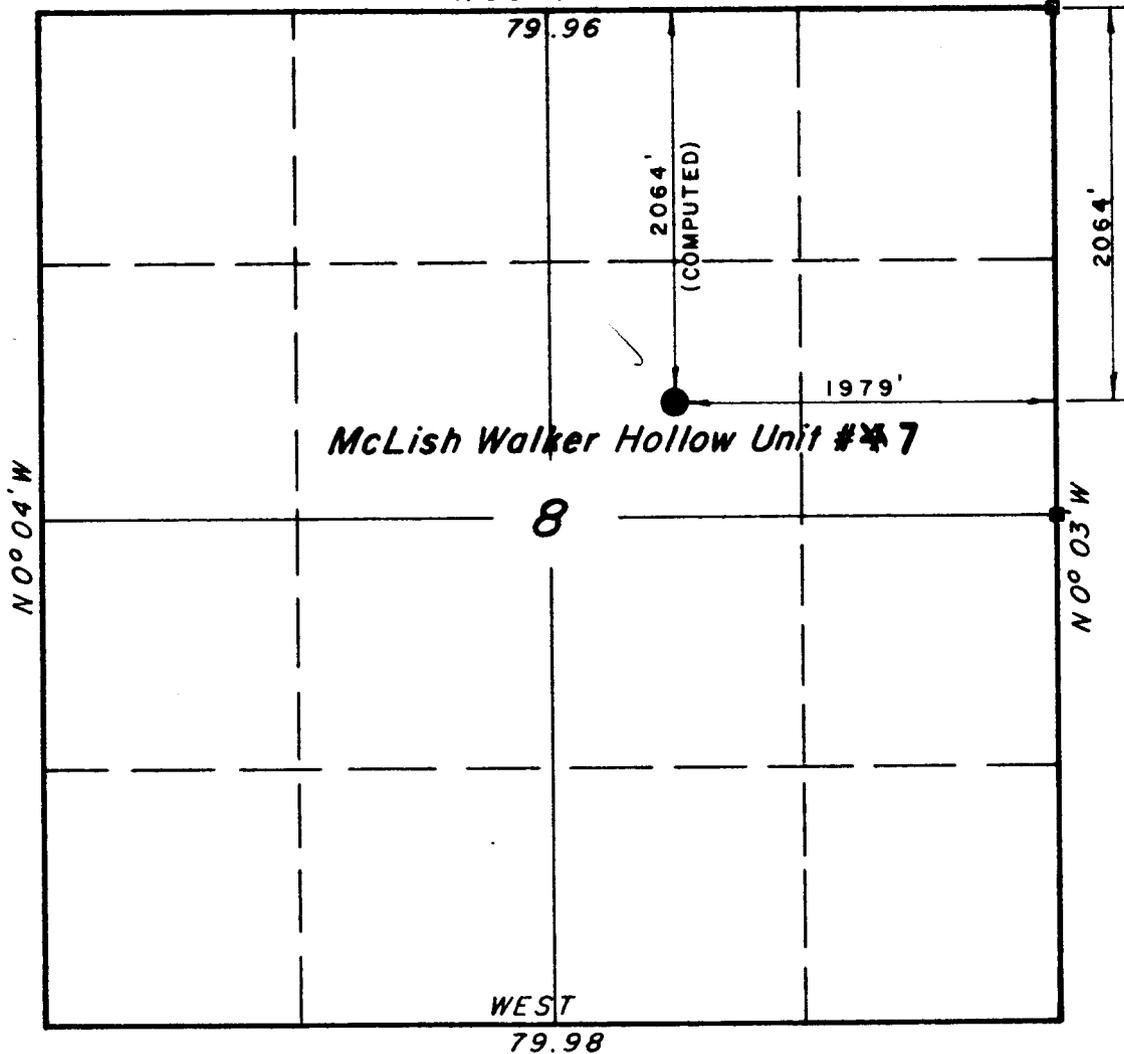
24. SIGNED Kenneth Luff TITLE Operator DATE April 25, 1969

(This space for Federal or State office use)
 PERMIT NO. 43-047-30052 APPROVAL DATE _____

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

T7S, R23E, SLB&M

N 89° 59' W



□ = BRASS CAP CORNERS USED

PROJECT

K. D. LUFF - LOCATION

WELL LOCATION, LOCATED AS SHOWN IN THE SW 1/4 NE 1/4, SECTION 8, T7S, R23E, S.L.B. & M., UINTAH 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.

Melvin Marshall
 REGISTERED LAND SURVEYOR
 REGISTRATION NO 2454
 STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING P. O. BOX Q - 110 EAST - FIRST SOUTH VERNAL, UTAH - 84078	
SCALE 1" = 1000'	DATE 23 APRIL, 1969
PARTY NJM MH	REFERENCES G. L. O. PLAT
WEATHER FAIR - WARM	FILE K. D. LUFF

DEPARTMENT OF THE INTERIOR (Color reverse side) UD 10
 GEOLOGICAL SURVEY

5. LEASE DESIGNATION AND SERIAL NO.

U-02651-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

7. UNIT AGREEMENT NAME

Walker Hollow

8. FARM OR LEASE NAME

Walker Hollow-McLish

9. WELL NO.

#7

10. FIELD AND POOL, OR WILDCAT

Walker Hollow

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

Sec 8, T7S-R23E

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Kenneth D. Luff

3. ADDRESS OF OPERATOR
210 Patterson Building, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
2064 fnl x 1979 fel

14. PERMIT NO.

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

5090 ungraded ground

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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

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

Set regular cement plugs as follows:

- 25 sacks 5350-5425'
- 25 sacks 2900-2975'
- 25 sacks 125-200'
- 10 sacks in top of surface with 4' x 4" Dry Hole Marker

The above plugging program was approved via telephone conversation with the District Engineer, Rodney Smith, 5/29/69.

APPROVED BY DIVISION OF
OIL & GAS CONSERVATION

DATE 6-4-69

BY Clem B Feight

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

SIGNED

Kenneth D. Luff

TITLE Operator

DATE 6/2/69

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

*See Instructions on Reverse Side

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved,
Budget Bureau No. 42-R355.5

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL:		OIL WELL <input type="checkbox"/>	GAS WELL <input type="checkbox"/>	DRY <input checked="" type="checkbox"/>	Other <input type="checkbox"/>
b. TYPE OF COMPLETION:		NEW WELL <input type="checkbox"/>	WORK OVER <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>
		DIFF. RESVR. <input type="checkbox"/>	Other <input type="checkbox"/>		
2. NAME OF OPERATOR Kenneth D. Luff					
3. ADDRESS OF OPERATOR 210 Patterson Building, Denver, Colorado 80202					
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 2064 fnl x 1979 fel At top prod. interval reported below At total depth					
14. PERMIT NO. 43-047-30052			DATE ISSUED 4/29/69		
5. LEASE DESIGNATION AND SERIAL NO. U-02651-B		7. UNIT AGREEMENT NAME Walker Hollow		12. COUNTY OR PARISH Uintah	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME		8. FARM OR LEASE NAME Walker Hollow-McLish		13. STATE Utah	
9. WELL NO. 7		10. FIELD AND POOL, OR WILDCAT Walker Hollow		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 8, T7S-R23E	
15. DATE SPUNDED 5/11/69	16. DATE T.D. REACHED 5/28/69	17. DATE COMPL. (Ready to prod.) Dry Hole	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 5090 ungraded ground	19. ELEV. CASINGHEAD	
20. TOTAL DEPTH, MD & TVD 5535'	21. PLUG, BACK T.D., MD & TVD N.A.	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY Rotary	25. WAS DIRECTIONAL SURVEY MADE no	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Dry and abandoned ✓				27. WAS WELL CORED. no	
26. TYPE ELECTRIC AND OTHER LOGS RUN Dual-Induction, Sonic Gamma Ray Logs					
28. CASING RECORD (Report all strings set in well)					
CASING SIZE 8 5/8"	WEIGHT, LB./FT. 24#	DEPTH SET (MD) 163 KB	HOLE SIZE 12 1/4	CEMENTING RECORD 100 sacks regular	AMOUNT PULLED none
29. LINER RECORD			30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE
					DEPTH SET (MD)
					PACKER SET (MD)
31. PERFORATION RECORD (Interval, size and number)			32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.		
			DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED	
33.* PRODUCTION					
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)			WELL STATUS (Producing or shut-in)
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)				TEST WITNESSED BY	
35. LIST OF ATTACHMENTS					

2 copies of Dual-Induction Log, Sonic Gamma Ray Log, Geologic Report, Drill Stem Test

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

SIGNED Kenneth Luff TITLE Operator DATE 6/4/69

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP	TRUE VEERT. DEPTH
				Uintah	Surface		
				Green River	2855		
				H Marker	4746		
				I Marker	4940		
				J Marker	5273		
				K Marker	5428		

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING X DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES	38. GEOLOGIC MARKERS
<p>See attached geologic report.</p>	<p>30. Production Interval: Denver, Colorado</p>

Smith

Ph. 3

KENNETH D. LUFF

#7 McLish Walker Hollow Unit

SW NE Section 8 - T7S - R23E

Uintah County, Utah

WELL SUMMARY

OPERATOR: Kenneth D. Luff

WELL: #7 McLish Walker Hollow Unit

LOCATION: 2064' S of NL and 1979' W of EL, Section 8, T7S, R23E,
Uintah County, Utah

ELEVATION: Graded Ground = 5100', KB = 5113'

CONTRACTOR: Barker Well Service

RIG TYPE: Rig #5, Ideco H-35 700

COMMENCED: May 11, 1969

COMPLETED: May 29, 1969

TOTAL DEPTH: 5535' Driller

LITHOLOGY: Bill Covey

CASING: Surface: Ran 5 joints (150') of 8 5/8", 24#, 8 rd
surface casing. Set at 163' KB. Cemented
with 100 sacks regular cement, 2% CaCl.
Ran guide shoe and 1 centralizer.

HOLE SIZE: 12 1/4" from surface to 167'. 7 7/8" from 167'

CORES: None

DRILL STEM TESTS: DST #1: 5450' to 5502'.

LOGGING SERVICES: Schlumberger Dual Induction-Laterolog from 164' to 5530'
Schlumberger BHC Sonic Log-Gamma Ray from 4000' to 5531'
Schlumberger "F" Log from 4000' to 5531'
Rocky Mountain Geo-Engineering Company Mud log from 4700'
to 5535'

FORMATION TOPS

<u>Formation</u>	<u>Depth</u>
Uintah	Surface
Green River	2855'
"H" Marker	4746'
"I" Marker	4940'
"J" Marker	5273'
"K" Marker	5428'

CHRONOLOGIC WELL HISTORY

5/10/69 Moving in Barker Well Service Rig #5.

5/11/69 Rigging up. Drilling rat hole at 6:00 p.m. Spudded 12 $\frac{1}{4}$ " surface hole at 7:00 p.m. with spud mud. Drilled 12 $\frac{1}{4}$ " hole to 137'.

Total footage = 137'

5/12/69 Drilled 12 $\frac{1}{4}$ " hole with mud to 167'. Circulate $\frac{1}{4}$ hour. Survey at 167' = 3/4 $^{\circ}$. Rigged up and ran 5 joints (150') of 8 5/8", 24#, 8 rd surface casing with guide shoe and 1 centralizer. Cemented at 163' KB with 100 sacks regular cement, 2% CaCl. Plug down at 3:45 a.m. W.O.C. and nipping up. Drilling mouse hole at 2:00 p.m. Drilling new 7 7/8" hole with New Bit #1 with water at 4:00 p.m. Drilled ahead to 1088'.

Total footage = 951'

5/13/69 Drilled 7 7/8" hole with water to 2779'. Worked on swivel and rotary guard $\frac{1}{2}$ hour. Trip for New Bit #2 at 1277'. Survey at 1277' = 1 $\frac{1}{2}$ $^{\circ}$. Work on rotary chain and motor 1 $\frac{1}{2}$ hours. Trip for New Bit #3 at 2405'. Survey at 2405' = 1 3/4 $^{\circ}$. Clean mud tanks $\frac{1}{2}$ hour. Begin mudding up.

Total footage = 1691'

5/14/69 Drilled 7 7/8" hole with mud to 3091'. Trip for New Bit #4 at 2856'. Survey at 2856' = 1 3/4 $^{\circ}$. Reamed to bottom 3/4 hour. Trip for New Bit #5 at 3091'. Survey at 3091' = 1 3/4 $^{\circ}$. Cut drilling line. Trip in hole. Junk in hole. Trip out - slip dies in hole. Wait on magnet. Trip in with magnet. Fishing and recovered 2 dies. Trip in hole with New Bit #5.

Total footage = 312'

5/15/69 Drilled 7 7/8" hole with mud to 3296'. Finish trip in with New Bit #5. Wash to bottom $\frac{1}{2}$ hour. Trip for New Bit #6 at 3193'. Finish trip out and clean out junk basket. Trip in with magnet. Wash to bottom with magnet. Trip out for bit. Trip in with New Bit #6 and junk sub. Drilling on junk. Drilling new hole at 6:00 p.m.

Total footage = 205'

5/16/69 Drilled 7 7/8" hole with mud to 3505'. Trip for New Bit #7 at 3312'. Washed to bottom 1/2 hour. Trip out for New Bit #8 at 3463'. Survey at 3463' = 1 3/4^o.
Total footage = 209'

5/17/69 Drilled 7 7/8" hole with mud to 3797' with button bit.
Total footage = 292'

5/18/69 Drilled 7 7/8" hole with mud to 4096' with button bit.
Total footage = 299'

5/19/69 Drilled 7 7/8" hole with mud to 4236'. Weld on rotary table 1/2 hour. Trip for New Bit #9 at 4216'. Survey at 4216' = 1 1/4^o. Tested mud hammer 1 hour. Had to drill through bridge on trip in hole. Washed to bottom 1/4 hour.
Total footage = 140'

5/20/69 Drilled 7 7/8" hole with mud to 4366'. Trip for New Bit #10 at 4236'. Washed to bottom 3/4 hour. Trip for New Bit #11 at 4336'. Lay down hammer tool, repair break-out line. Picked up 6 D.C.s
Total footage = 130'

5/21/69 Drilled 7 7/8" hole with mud to 4610'. Trip for New Bit #12 at 4478'. Start trip out for New Bit #13 at 4610'.
Total footage = 244'

5/22/69 Drilled 7 7/8" hole with mud to 4761'. Finished trip in hole with New Bit #13 at 4610'. Washed to bottom 1/4 hour. Trip for New Bit #14 at 4740'. Washed to bottom 1/4 hour. Trip out of hole to look for hole in drill pipe.
Total footage = 151'

5/23/69 Drilled 7 7/8" hole with mud to 4914'. Finished trip out to look for hole in drill pipe. Laid down 2 washed out drill collars. Changed floats. Trip in, pick up 3 joints and washed to bottom. Trip for New Bit #15 at 4885'. Cut drilling line. Washed to bottom 1 1/4 hours. Survey at 4885' = 1^o.
Total footage = 153'

5/24/69 Drilled 7 7/8" hole with mud to 5085'. Trip for New Bit #16 at 4979'. Start trip out for New Bit #17 at 5085'.
Total footage = 171'

5/25/69 Drilled 7 7/8" hole with mud to 5205'. Finished trip in hole with New Bit #17. Washed to bottom 1/4 hour. Trip for New Bit #18 at 5176'. Fill pipe and wash to bottom 3/4 hour.

Total footage = 120'

5/26/69 Drilled 7 7/8" hole with mud to 5335'. Trip for New Bit #19 at 5258'. Put on new rotary chain 1 hour. Survey at 5258' = 1 1/4". Fill pipe and wash to bottom 1/2 hour. Begin trip out of hole for New Bit #20 at 5335'.

Total footage = 130'

5/27/69 Drilled 7 7/8" hole with mud to 5451'. Finish trip in hole with New Bit #20. Fill pipe and wash to bottom 1/2 hour. Trip for New Bit #21 at 5428'. Strapped out of hole - corrected 1 foot. Fill pipe and wash to bottom 1/2 hour.

Total footage = 116'

5/28/69 Drilled 7 7/8" hole with mud to 5535' - TD Trip for New Bit #22 at 5484'. Fill pipe and wash to bottom 1/2 hour. Reached T.D. at 3:00 p.m. Circulate 2 hours, short trip 15 stands, circulate 2 hours. Trip out of hole prep to log. Started running Schlumberger logs.

Total footage = 84'

5/29/69 Ran Schlumberger Dual-Induction-Laterolog from 5430' to 164'. Ran Schlumberger BHC Sonic Log-Gamma Ray and "F" log from 5531' to 4000'. Finish logging at 2:30 a.m. Decided to test in "K" section. Made up Halliburton test tools, prep to take DST #1. Ran DST #1 from 5450' to 5502'. Recovered 280' O & G CM, 430' O, M & GCW, and 400' of slightly OCW. Decided to abandon well. Set cement plugs as follows:

25 sacks - 5350' to 5425'

25 sacks - 2900' to 2975'

25 sacks - 125' to 200'

10 sacks in top of surface pipe and erected a 4' x 4"

Dry Hole Marker

Plugged and Abandoned.

BIT RECORD

<u>Bit #</u>	<u>Size</u>	<u>Make</u>	<u>Type</u>	<u>In</u>	<u>Out</u>	<u>Footage</u>	<u>Hours</u>	<u>Serial Number</u>
	12 $\frac{1}{4}$	HTC	OSC3	0	167	167	6	RR
1	7 7/8	Reed	YT3	167	1277	1110	8 $\frac{1}{2}$	T 40601
2	7 7/8	Smith	DTJ	1277	2405	1128	10	AL417
3	7 7/8	HTC	CIC	2405	2856	451	6 $\frac{1}{2}$	AV982
4	7 7/8	HTC	OSCJ	2856	3091	235	8 3/4	DBT19
5	7 7/8	Smith	V2J	3091	3193	102	5 3/4	AO778
6	7 7/8	HTC	OWV	3193	3312	119	7 $\frac{1}{4}$	FM017
7	7 7/8	Smith	V2J	3312	3463	151	11 $\frac{1}{4}$	AV469
8	7 7/8	Smith	SS4J	3463	4216	753	63 3/4	AY4342E
9	7 7/8	Smith	L4HP	4216	4236	20	4 $\frac{1}{2}$	43444
10	7 7/8	Smith	V2	4236	4336	100	10 $\frac{1}{4}$	AW669
11	7 7/8	Smith	V2J	4336	4478	142	12	AV386
12	7 7/8	Smith	V2J	4478	4610	132	9 $\frac{1}{2}$	AO957
13	7 7/8	Smith	V2H	4610	4740	130	13 3/4	AV475
14	7 7/8	Smith	V2J	4740	4885	145	12	92520
15	7 7/8	HTC	OWV	4885	4979	94	9	MR609
16	7 7/8	Smith	T2J	4979	5085	106	10 $\frac{1}{4}$	AO598
17	7 7/8	Smith	T2	5085	5176	91	11 $\frac{1}{2}$	AN835
18	7 7/8	Smith	V2	5176	5258	82	10 $\frac{1}{4}$	AX807
19	7 7/8	Smith	C2	5258	5335	77	10 $\frac{1}{4}$	24246
20	7 7/8	Smith	C2	5335	5428	93	12	24016
21	7 7/8	Smith	T2	5428	5484	64	10	AW735
22	7 7/8	Smith	C2	5484	5535	51	5	23822

DAILY MUD CHARACTERISTICS

<u>Date</u>	<u>Depth</u>	<u>Type</u>	<u>WT</u>	<u>Vis.</u>	<u>Filtrate</u>	<u>Ph</u>	<u>Sd%</u>	<u>Solids%</u>
5/14/69	2992	Gel-Chem	9.4	35	6.0	9.0	3/4	
5/15/69	3193	Gel-Chem	9.6	35	8.0	9.0	3/4	
5/16/69	3376	Gel-Chem	9.2	33	7.0	8.5	1/2	6%
5/17/69	3625	Gel-Chem	9.3	33	7.0	8.5	1/2	6%
5/18/69	3951	Gel-Chem	9.4	35	5.8	9.0	1/2	
5/19/69	4110	Gel-Chem	9.3	33	7.0	8.8	1/3	
5/20/69	4308	Gel-Chem	9.4	36	6.6	9.0	1/3	
5/21/69	4548	Gel-Chem	9.4	33	9.0	9.0	1/2	
5/22/69	4707	Gel-Chem	9.4	34	9.0	9.0	1/2	6%
5/23/69	4885	Gel-Chem	9.1	32	9.0	9.0	1/2	
5/24/69	4989	Gel-Chem	9.4	36	8.0	8.8	1/2	
5/25/69	5140	Gel-Chem	9.5	38	7.0	9.0	1/2	
5/26/69	5258	Gel-Chem	9.4	34	7.0	9.0	1/2	
5/27/69	5409	Gel-Chem	9.5	42	6.6	9.0	1/2	
5/28/69	5535	Gel-Chem	9.7	55	6.2	9.0	1/2	

DEVIATION SURVEYS

<u>Depth</u>	<u>Deviation</u>	<u>WT on Bit</u>	<u>Pump Pressure</u>	<u>RPM</u>
165'	3/4	ALL	250	150
1227'	1 1/2	40,000	1200	150
2405'	1 3/4	40,000	1200	150
2856'	1 3/4	40,000	1150	150
3463'	1 3/4	45,000	1100	150
4235'	1 1/4	35-50,000	1200-700	65-85
4885'	1	50,000	700	65
5258'	1 1/4	50-60,000	700	65

DRILL STEM TESTS

DST #1: 5450' - 5502'
 Double Packers at 5442' and 5450'
 Bottom Packer at 5502'

Opened tool for 15 minutes first flow. Opened with fair blow, strong blow in 4 minutes, continued for remainder of 15 minutes. No gas to surface. Shut in for initial 30 minutes. Re-opened for 90 minute second flow. Re-opened with fair blow, strong in 3 minutes, continued strong for remainder of period. No gas to surface. Shut in for final 30 minutes.

	<u>ISIP</u>	<u>FSIP</u>	<u>IFP</u>	<u>FFP</u>	<u>IHP</u>	<u>FHP</u>
Top chart: 5427'	2161.9	1966.6	55.4-207.8	235.5-498.6	2762.5	2762.5
Bottom chart: 5464'	2178.8	1989.1	109.0-231.6	245.2-517.5	2788.5	2788

Recovered: 280' of oil and gas cut mud
 430' of oil, mud, and gas cut water
 400' of slightly oil cut water

LITHOLOGY

- 4700-10 Shale: variegated, predominantly red-gray, some gray green firm calcareous, with traces of gray siltstone and gray to tan very fine-grained tite calcareous sandstone. Some dark gray ostra-codal limestone.
- 4710-20 Sandstone: Light gray-white very fine to fine-grained poorly cemented, friable, unconsolidated, clean, calcareous with variegated shale as above.
- 4720-30 Shale: As above, increase in gray, gray-green. Trace of light to medium gray dense limestone.
- 4730-50 Shale: variegated, firm, mottled. Some mica.
- 4750-70 Sandstone: gray, some tan, very fine-grained, hard, tite, calcareous with some light tan spotty stain. Yellow fluorescence and moderately fast streaming cut. Poor porosity.
- 4770-90 Shale: variegated with some gray siltstones. Sandstone as above with less staining.
- 4790-4800 Sandstone: white, fine-grained, medium-friable, medium-tite, calcareous, clean, well-sorted. No stain.
- 4800-10 Shale: variegated firm sandstone as above, tite and very fine-grained.
- 4810-20 Sandstone: white, fine-grained, clean, calcareous, tite. Some medium-grained, poorly-sorted, sub-rounded. No staining or fluorescence.
- 4820-30 Sandstone: as above, with increase in unconsolidated, medium-grained sand grains. Light stain in 2-3 pieces.
- 4830-50 Shale: variegated as above with occasional gray-tan dense limestone streaks.
- 4850-70 Shale: as above with tan-light gray very fine-crystalline dense limestone. Some pyrites.
- 4870-90 Shale: as above.
- 4890-4900 Sandstone: white fine-grained, friable-unconsolidated poorly-sorted, clean, calcareous, no stain.
- 4900-10 Sandstone: as above with various firm shales. Some very sandy.

- 4910-40 Sandstone: as above some white medium-grained, poorly-sorted, sub-angular, sub-rounded, clean, tite. Some very sandy, gray firm shales. Some gray, green mica shales.
- 4940-50 Shale: variegated, firm, sand as above. Predominantly gray to gray-green.
- 4950-60 Shale: as above with some very fine to medium-grained. Some coarse-grained, unconsolidated, clear sand grains.
- 4960-5000 Shale: as above, some minor very fine-crystalline gray limestone streaks.
- 5000-10 Sandstone: white, fine-grained, well-sorted, clean, calcareous, friable. Some fair porosity, some good porosity, no stain or fluorescence.
- 5010-20 Sandstone: white, medium-grained, some coarse-grained, clean, calcareous, ostracodal, some gray ostracodal chert fragments. Some coarse-grained, sub-angular, poorly-sorted, micro-conglomerate.
- 5020-30 Sandstone: as above with increase in variegated shales.
- 5030-40 Shale: variegated (gray to gray-green, red-brown), some very pyritic as above. Sandstone with increase in white, very fine-grained, tite sandstone. Some light gray, very fine-crystalline limestone streaks.
- 5040-80 Shale: as above with occasional streaks, gray, very fine-crystalline limestone.
- 5080-90 Shale: as above with white, very fine to fine-grained, medium-cemented, clean, calcareous, tite, sandstone.
- 5090-5100 Sandstone: white, clear, very fine to fine-grained, friable, clean, well-sorted, calcareous. No show.
- 5100-10 Shale: variegated, firm, silty. Some gray green siltstone. Traces of tan limestone.
- 5110-20 Siltstone: Light gray, some gray-green, firm, silty. Some gray ostra. Shale: Traces very pyritic sandstone, some medium gray ostra amorphous limestone.
- 5120-30 Sandstone: white, fine to medium-grained, clean, calcareous, friable, poorly-sorted, sub-angular. Some coarse-grained, angular, ostracodal sandstone. Some tan ostracodal limestone.
- 5130-40 Sandstone: as above, increase in white, very fine-grained, tite sandstone with white claystone. Some fine-grained sandstone with angular limestone nodules embedded.
- 5140-50 Shale & Siltstone: sandstone as above grading to very fine-grained sandstone and siltstone. Various mottled shales. Some very silty mica, shale.

- 5150-60 Sandstone: gray, fine-grained, friable, clean, calcareous, with heavy, dark, spotty dead oil stain on few pieces. No fluorescence.
- 5160-80 Shale: variegated, firm, calcareous, with scattered ostracods.
- 5180-90 Shale: as above with increase in medium-light gray shales-siltstones.
- 5190-5200 Sandstone: light gray to white, very fine to fine-grained, well-cemented, calcareous, clean, tite, well-sorted.
- 5200-10 Limestone: buff, very fine to crystalline, very ostracodal. Some earthy limestone. Some sandstone as above. Some light gray calcareous siltstones.
- 5210-20 Sandstone: gray-white, very fine to fine-grained, tite, very ostracodal, calcareous, well-sorted, some white, very friable, clean sandstone. Limestone as above.
- 5220-30 As above with medium gray, very sandy, firm shales.
- 5230-50 Sandstone: light gray to white, fine-grained, friable, poorly cemented, clean, calcareous. Some fine-grained, tite, slightly quartzitic, dirty, calcareous. Some ostracodal limestone as above.
- 5250-70 Shale: variegated, silty-sandy as above.
- 5270-80 Sandstone: white, fine-grained, medium-cemented, clean, well-sorted, calcareous. Some pyritic sandstone.
- 5280-90 Sandstone: gray, gray-green, tite, well-cemented, very fine to fine-grained, hard, ostra, some heavy dead oil spotty stain in hard very fine-grained, tite sandstone.
- 5290-5300 Sandstone: as above with increase in ostracodal sandstone and various shales.
- 5300-10 Sandstone: gray, very ostracodal, very fine to fine-grained, well-cemented, calcareous, tite, well-sorted.
- 5310-20 Sandstone: white, fine to medium-grained, poorly-cemented, friable, unconsolidated, poorly-sorted, clean, calcareous.
- 5320-40 Shale: gray, gray-green, firm, calcareous, mica.
- 5340-50 Shale: variegated and as above with white to clear, fine to medium-grained, unconsolidated sand grains.
- 5350-60 Sandstone: white, very fine to fine-grained, friable, clean, calcareous, well-sorted.
- 5360-70 Sandstone: as above with increase in unconsolidated, sub-rounded, sub-angular grains.

- 5370-80 Sandstone: clear, medium-grained, poorly-sorted, angular, clean, with some chert fragments.
- 5380-90 Sandstone: white, very fine to fine-grained, some medium-grained, clean, calcareous, poorly-cemented, well-sorted.
- 5390-5400 Sandstone: clear, fine-grained, friable, medium-sorted, sub-angular with medium yellow fluorescence and good streaming cut. Heavy oil stain, fair to good porosity.
- 5400-10 Shale: variegated, with sandstone as above but with spotty, heavy stain. Some white, very clean, calcareous sandstone.
- 5410-20 Sandstone: white, clean, very fine to fine-grained, friable to tite, clean, calcareous, well-sorted. Abundant, unconsolidated sand grains. Trace of above stain in a few pieces of sandstone.
- 5420-30 Shale: variegated, firm, mottled, some mica.
- 5430-40 Sandstone: gray to clear, very fine-grained, poorly to well-cemented, moderately friable to tite, calcareous with medium yellow fluorescence and good streaming cut. Some light spotty stain.
- 5440-50 Sandstone: tan to white, very fine to fine-grained, more friable to unconsolidated, calcareous with fluorescence as above. Good even stain in 10% of sandstone. Rest of sandstone white, clean.
- 5450-60 Sandstone: white to gray, some tan, tite-unconsolidated, poorly sorted, calcareous with fluorescence and stain in 1 % of sandstone, various shales as above.
- 5460-70 Sandstone: as above, more unconsolidated, clean with decrease in fluorescence.
- 5470-80 Sandstone: white-tan, very fine to fine-grained, friable-unconsolidated, calcareous with light spotty stain in 50% of sandstone. Medium yellow fluorescence with good cut. Some fair to good porosity.
- 5480-90 Shale: various abundant up hole cavings.
- 5490-5500 Shale: various abundant up hole cavings.
- 5500-10 Sandstone: white-tan, very fine to fine-grained, well-cemented, tite, clean, calcareous with dull yellow fluorescence and slow streaming cut. Very light stain in 1% of sandstone, some spotty.
- 5510-20 Sandstone: white-tan, fine-grained, poorly-cemented-friable, clean, well-sorted with light spotted stain in 30% of sandstone. Medium yellow fluorescence with good streaming cut. Some fair to good porosity.
- 5520-35 Shale: variegated, medium to firm with traces of above sandstone and unconsolidated sand grains.

SUMMARY OF OIL AND GAS SHOWS

- 4751-54 3/15 C₁ 2000 ppm C₂ 50 ppm C₃ 10 ppm. Sandstone: light gray to clear, very fine-grained, well-cemented, tite, calcareous with 1% of sand with light tan spotty stain. Medium yellow fluorescence with moderately fast streaming cut. Very poor porosity.
- 4779-4789 3/20 C₁ 3000 ppm C₂ 200 ppm C₃ 100 ppm C₄ 100 ppm. Sandstone: white to light gray, very fine to fine-grained, well-sorted, clean, calcareous with no fluorescence. Stain noted in very few pieces of tite, very fine-grained sandstone. Fair to good porosity in clean sandstone.
- 4800-4811 5/55 C₁ 9000 ppm C₂ 300 ppm C₃ 200 ppm C₄ 200 ppm C₅ 25 ppm. Sandstone: white to gray, very fine to fine-grained, friable-well-cemented, clean, calcareous with trace of dull yellow fluorescence in very fine-grained sandstone. Most of sand does not fluoresce or have stain. Some good porosity. Stained sand has poor porosity.
- 5386-89 0/24 C₁ 1400 ppm C₂ 67 ppm. Sandstone: clear, fine-grained, friable, moderately-sorted, sub-angular with medium yellow fluorescence and good streaming cut. Heavy, even oil stain. Good to fair porosity.
- 5428-30 2/14 C₁ 1500 ppm C₂ 100 ppm. Sandstone: gray, very fine-grained, poorly to well-cemented, moderately friable-tite, calcareous with medium yellow fluorescence, very light spotty stain.
- 5434-40 4/10 C₁ 1200 ppm C₂ 65 ppm. Sandstone: as above with tan, very fine to fine-grained, medium-friable-unconsolidated with good, even stain in 10% of sandstone. Porosity in general is poor with few pieces with fair porosity noted. Several kinds of sand in each sample.
- 5458-60 0/6 C₁ 800 ppm only
- 5463-68 2/26 C₁ 1400 ppm C₂ 100 ppm. Sandstone: white-gray-tan, very fine to fine-grained, friable-unconsolidated, calcareous with medium-yellow fluorescence and good streaming cut. Light spotty stain in 50% of sandstone. Some fair to good porosity in stained sandstone. Some good porosity in non-stained sandstone.
- 5473-77 2/10 C₁ 1000 ppm C₂ 65 ppm. Part of this increase is re-cycle of gas kick at 5463. Sandstone as above with increase in very fine-grained tite sandstone.

- 5485-87 4/10 C₁ 1000 ppm C₂ 65 ppm
- 5489-91 4/12 C₁ 1100 ppm C₂ 65 ppm. Sandstone: white-tan, very fine to fine-grained, medium-well cemented, tite, medium-sorted, calcareous with dull to medium yellow fluorescence. Moderately slow cut, very light stain, some spotty stain. Poor to fair porosity.
- 5495-5501 4/22 C₁ 3000 ppm C₂ 85 ppm. Sandstone: white to tan, very fine-grained, well-cemented, tite, well-sorted, clean with medium yellow fluorescence and moderately slow cut. Some light staining in 10% of sand. Some white, non-stained, tite sandstone.

Schuler

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

(Other side) ON 10

5. LEASE DESIGNATION AND SERIAL NO.

U-02651-B

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.)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Walker Hollow

8. FARM OR LEASE NAME

Walker Hollow-McLish

9. WELL NO.

#7

10. FIELD AND POOL, OR WILDCAT

Walker Hollow

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

Sec. 8, T7S-R23E

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

1.

OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

Kenneth D. Luff

3. ADDRESS OF OPERATOR

210 Patterson Building, Denver, Colorado 80202

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

2064 fnl x 1979 fel

14. PERMIT NO.

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

5090 ungraded ground

16.

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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

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

Set regular cement plugs as follows:

25 sacks 5350-5425'

25 sacks 2900-2975'

25 sacks 125-200'

10 sacks in top of surface with 4' x 4" Dry Hole Marker

*PA'd
5/29/69
per drilling reports*

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

SIGNED

Kenneth D. Luff

TITLE

Operator

DATE

6/9/69

(This space for Federal or State office use)

APPROVED BY

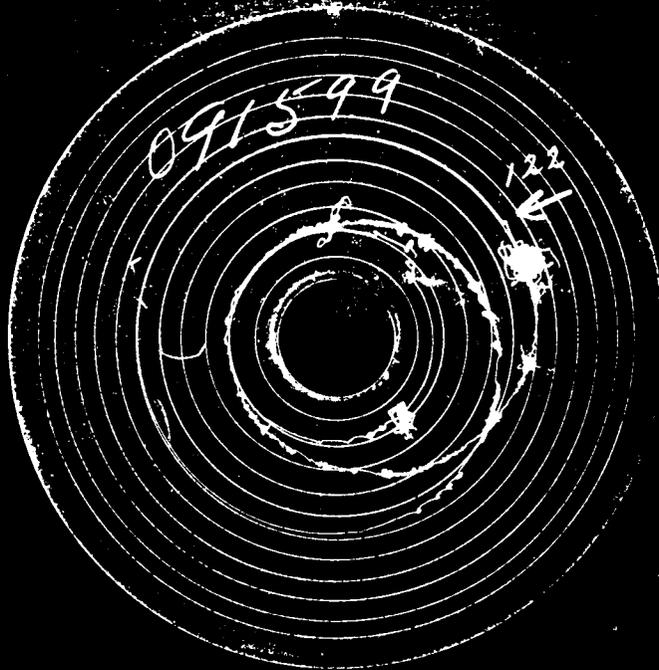
TITLE

CONDITIONS OF APPROVAL, IF ANY:

DATE

*See Instructions on Reverse Side

TEMPERATURE RECORDER CHART



10° each circle

- OF₃ = Theoretical Open Flow Potential with/Damage Removed Max. MCF/D
- OF₄ = Theoretical Open Flow Potential with/Damage Removed Min. MCF/D
- P_s = Extrapolated Static Pressure Psig.
- P_f = Final Flow Pressure Psig.
- P_{or} = Potentiometric Surface (Fresh Water *) Feet
- Q = Average Adjusted Production Rate During Test bbls/day
- Q₁ = Theoretical Production w/Damage Removed bbls/day
- Q_g = Measured Gas Production Rate MCF/D
- R = Corrected Recovery bbls
- r_w = Radius of Well Bore Feet
- t = Flow Time Minutes
- t_o = Total Flow Time Minutes
- T = Temperature Rankine °R
- Z = Compressibility Factor _____
- μ = Viscosity Gas or Liquid CP
- Log = Common Log

* Potentiometric Surface Reference to Rotary Table When Elevation Not Given,
Fresh Water Corrected to 100 °F.

NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b₁	= Approximate Radius of Investigation (Net Pay Zone h ₁)	Feet
D.R.	= Damage Ratio	—
EI	= Elevation	Feet
GD	= B.T. Gauge Depth (From Surface Reference)	Feet
h	= Interval Tested	Feet
h₁	= Net Pay Thickness	Feet
K	= Permeability	md
K₁	= Permeability (From Net Pay Zone h ₁)	md
m	= Slope Extrapolated Pressure Plot (Psi ² /cycle Gas)	psi/cycle
OF₁	= Maximum Indicated Flow Rate	MCF/D
OF₂	= Minimum Indicated Flow Rate	MCF/D
OF₃	= Theoretical Open Flow Potential with/Damage Removed Max.	MCF/D
OF₄	= Theoretical Open Flow Potential with/Damage Removed Min.	MCF/D
P_s	= Extrapolated Static Pressure	Psig.
P_f	= Final Flow Pressure	Psig.
P_{ot}	= Potentiometric Surface (Fresh Water *)	Feet
Q	= Average Adjusted Production Rate During Test	bbls/day
Q₁	= Theoretical Production w/Damage Removed	bbls/day
Q_g	= Measured Gas Production Rate	MCF/D
R	= Corrected Recovery	bbls
r_w	= Radius of Well Bore	Feet
t	= Flow Time	Minutes
t_o	= Total Flow Time	Minutes
T	= Temperature Rankine	°R
Z	= Compressibility Factor	—
μ	= Viscosity Gas or Liquid	CP
Log	= Common Log	

* Potentiometric Surface Reference to Rotary Table When Elevation Not Given,
Fresh Water Corrected to 100° F.

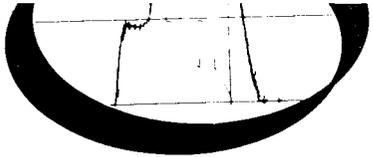
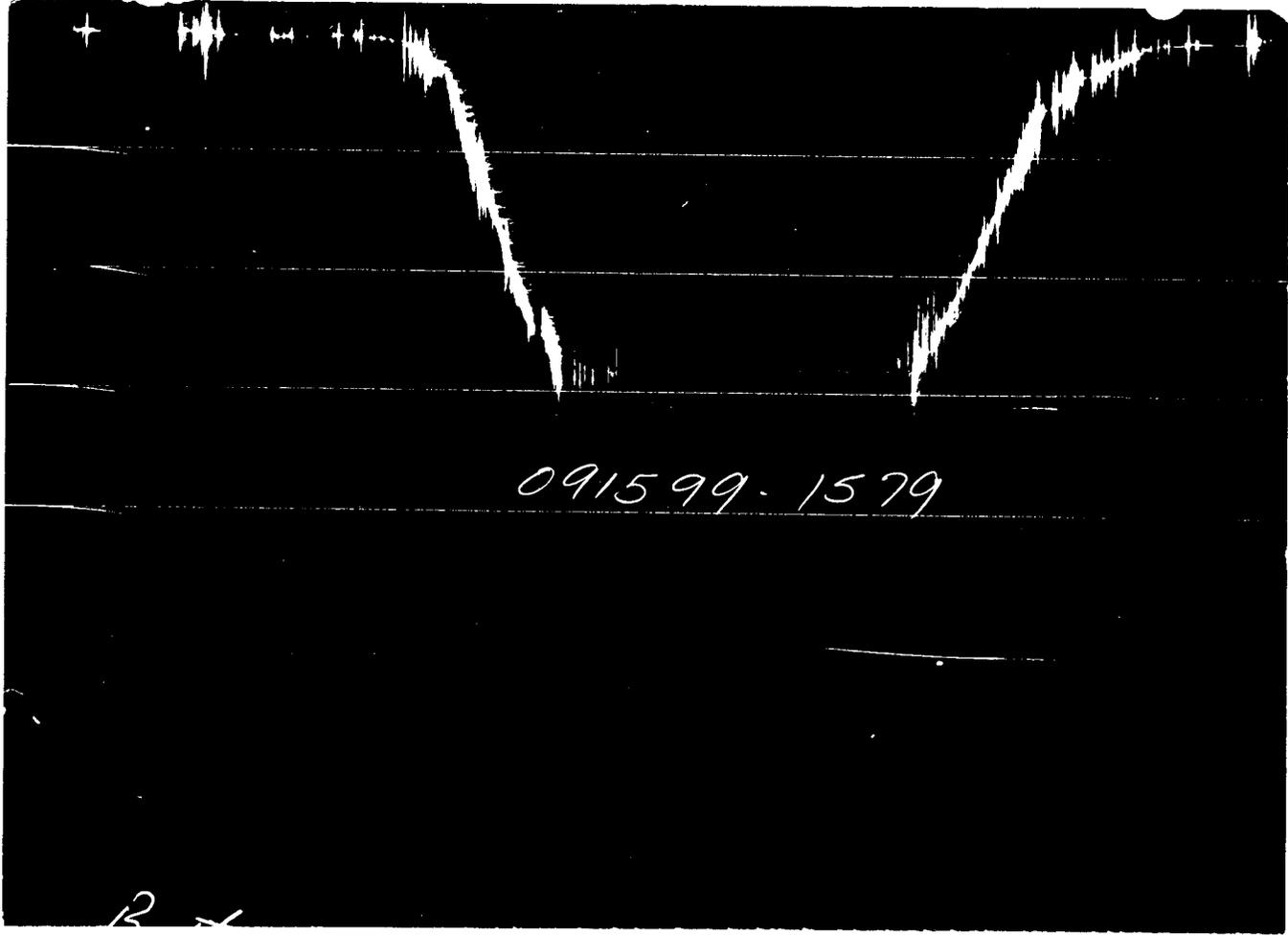
↑ PRESSURE ↓

← TIME →

091599-490

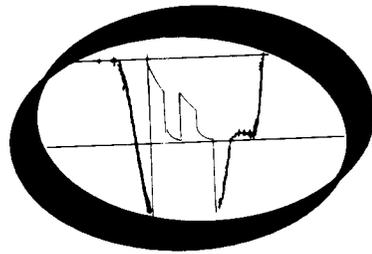
091599-198

Each Horizontal Line Equal to 1000 p.s.i.



Formation Testing Service Report

Formation Testing Service Report ^{PM-2}



HALLIBURTON SERVICES
DUNCAN, OKLAHOMA

MC LISH WALKER HOLLOW

Well No. 7

Test No. 1

5450-5502'

K. D. LUFF

Lease Owner/Company Name

Legal Location Sec. - Twp. - Rng. 8 7S 23E

Field Area WALKER HOLLOW

County

UTAH

State

UTAH

FLUID SAMPLER DATA				Date	5-29-69 <th>Ticket Number</th> <td>091599 </td>	Ticket Number	091599	
Sampler Pressure _____ P.S.I.G. at Surface	Kind of Job	OPEN HOLE STRADDLE		Halliburton District	VERNAL			
Recovery: Cu. Ft. Gas _____	Tester	D. BROWN		Witness	J. MARTIETS			
cc. Oil _____	Drilling Contractor	BARKER DRILLING COMPANY SM S						
cc. Water _____	EQUIPMENT & HOLE DATA							
cc. Mud _____	Formation Tested	Green river						
Tot. Liquid cc. _____	Elevation	5113' KB					Ft.	
Gravity _____ ° API @ _____ °F.	Net Productive Interval	-						Ft.
Gas/Oil Ratio _____ cu. ft./bbl.	All Depths Measured From	Kelly bushing						
	Total Depth	5534'					Ft.	
	Main Hole/Casing Size	7 7/8"						
	Drill Collar Length	521		I.D.	2.75			
	Drill Pipe Length	4923		I.D.	3.826			
	Packer Depth(s)	5442-5450-5502'					Ft.	
	Depth Tester Valve	5422'					Ft.	
	RESISTIVITY	CHLORIDE CONTENT						
Recovery Water _____ @ _____ °F. _____ ppm	Cushion	TYPE	AMOUNT	Depth Back	Surface	Bottom		
Recovery Mud _____ @ _____ °F. _____ ppm	None			Ft. Pres. Valve	Choke	1" Bottom Choke 3/4"		
Recovery Mud Filtrate _____ @ _____ °F. _____ ppm	Recovered	280	Feet of oil and gas cut mud					Med. From Tester Valve
Mud Pit Sample _____ @ _____ °F. _____ ppm	Recovered	430	Feet of oil, mud, and gas cut water					
Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm	Recovered	400	Feet of slightly oil cut water					
Mud Weight _____ vis _____ cp	Recovered		Feet of					
	Recovered		Feet of					
	Remarks	Tool opened with a fair blow in 4 minutes of 14 minute first flow. Closed tool for a 32 minute first closed in pressure. Tool reopened with a fair blow, strong in 3 minutes, strong for remainder of 89 minute second flow. Closed tool for a 30 minute second closed in pressure. No gas to the surface.						
TEMPERATURE	Gauge No. 490	Gauge No. 198	Gauge No. 1579	TIME				
	Depth: 5427 Ft.	Depth: 5464 Ft.	Depth: 5530 Ft.					
	12 Hour Clock	12 Hour Clock	12 Hour Clock	Tool A.M.				
Est. °F.	Blanked Off no	Blanked Off yes	Blanked Off yes	Opened 8:45 P.M.				
5529' @ Actual 122 °F.	Pressures		Pressures		Tool A.M.			
	Pressures		Pressures		Closed 11:30 P.M.			
	Field	Office	Field	Office	Field	Office	Reported	
Initial Hydrostatic	2763	2757	2789	2798	2838	2834	Minutes	
First Period	Flow Initial	55	79	109	149		Minutes	
	Flow Final	208	204	232	222		15	
	Closed in	2162	2161	2179	2184		30	
Second Period	Flow Initial	236	285	245	319	Hydrostatic	Minutes	
	Flow Final	499	497	518	518	Release...	90	
	Closed in	1966	1969	1989	1992	2798	30	
Third Period	Flow Initial	-	-	-	-		Minutes	
	Flow Final	-	-	-	-		Minutes	
	Closed in	-	-	-	-		Minutes	
Final Hydrostatic	2763	2754	2788	2775	-	2802	Minutes	

	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5.75	2.75	.97	
Water Cushion Valve				
Drill Pipe	4.50	3.826	4923	
Drill Collars	6.125	2.75	521	
Handling Sub & Choke Assembly				
Dual CIP Valve	5	.87	4.92	
Dual CIP Sampler	5	3.75	4.88	
Hydro-Spring Tester	5	.75	5.02	5422
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5	3.75	4.13	5427
Hydraulic Jar	5.03	1.75	5.00	
VR Safety Joint	5	1	2.79	
Pressure Equalizing Crossover	5		1.00	
Packer Assembly	6.75	1.53	5.81	5442
Distributor	5	1.68	2.00	
Packer Assembly	6.75	1.53	5.81	5450
Flush Joint Anchor	5.75	4.75		
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5	3.75	4.13	5464
Drill Collars	6.125	2.75	30.39	
Anchor Pipe Safety Joint				
Packer Assembly	6.75	1.53	5.81	5502
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5.75	4.75	28.00	
Blanked-Off B.T. Running Case	5.75	2.50	4.52	5530