

FILE NOTATIONS

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

Checked by Chief *AMB*
Approval Letter *IN UNIT*
Disapproval Letter

COMPLETION DATA:

Date Well Completed *1-30-69*

OW..... WW..... TA.....

GW..... OS..... PA.....

Location Inspected

Bond released

State or Fee Land

LOGS FILED

Driller's Log. *2-28-69*

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

5. LEASE DESIGNATION AND SERIAL NO.
U-02651

6. INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Walker Hollow

8. FARM OR LEASE NAME
Pan American

9. WELL NO.
1

10. FIELD AND POOL, OR WELDCAT
Walker Hollow

11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA
Sec. 9, T7S, R23E

12. COUNTY OR PARISH
Utah

13. STATE
Utah

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 **819' fwl x 1623' fnl**
 At proposed prod. zone **same** **NE SW NW**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
3 miles Redwash Camp

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) **501'**

16. NO. OF ACRES IN LEASE **120**

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. **1825'**

19. PROPOSED DEPTH **5580'**

20. ROTARY OR CABLE TOOLS **Rotary**

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
Est. K.B. 5200'

22. APPROX. DATE WORK WILL START*
Nov 10, 1968

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 ft.	150 sacks
7-7/8"	5-1/2"	14#	5580 ft.	250 sacks

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 5580'; run ITS and Sonic Logs and DST potential oil and gas zones. If tests, logs and other data indicate commercial production, run 5-1/2" production casing; if not, plug and abandon well as per instructions from state

Approved by **Division of OIL & GAS CONSERVATION**

DATE **NOV 14 1968**
 BY *[Signature]*

43-647-30039

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 *[Signature]* TITLE **Operator** DATE **10-29-68**

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

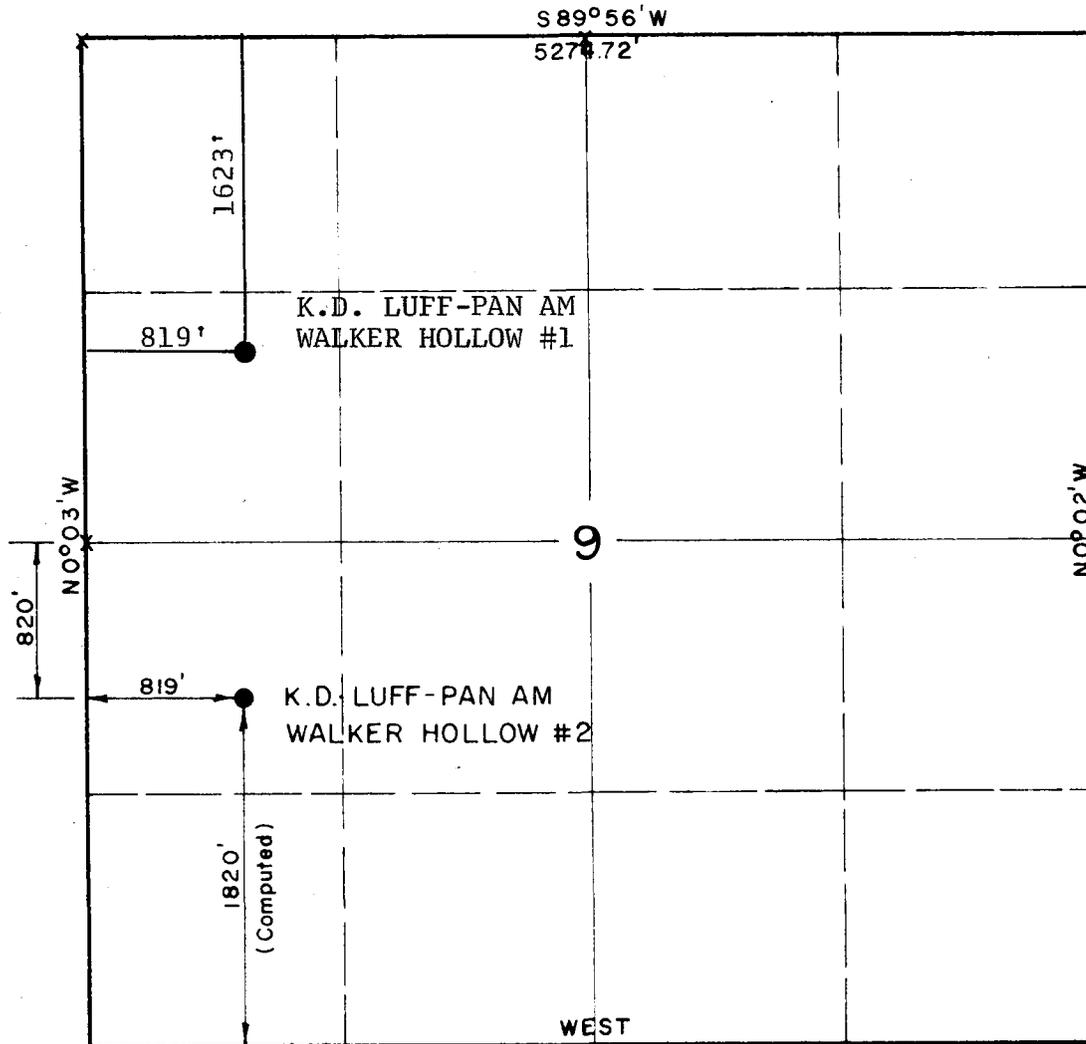
CONDITIONS OF APPROVAL, IF ANY:

T7S, R 23E, S.L.B. & M.

PROJECT

K.D. LUFF

Well location, located as shown in
the NW 1/4 of the SW 1/4, Sec
9, T7S, R23E, S.L.B. & M.
Uintah County, Utah.



X = Corners Located (Brass Caps)



CERTIFICATE

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

REGISTERED LAND SURVEYOR
REGISTRATION NO. 3137
STATE OF UTAH

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

SCALE 1" = 1000'	DATE 20 Oct 1968
PARTY L.C.K. & K.M.	REFERENCES GLO Plat
WEATHER Cool	FILE K.D. Luff

KENNETH D. LUFF

402 PATTERSON BUILDING
DENVER, COLORADO 80202
TELEPHONE 255-0325

November 12, 1968

Mr. Jack Feight
Utah Oil & Gas Commission
1588 West North Temple
Salt Lake City, Utah 84116

Dear Mr. Feight:

Enclosed please find Application for Permit to Drill on our #1 and #2 Pan American Walker Hollow Unit wells. You will note that we have added the #1 well to a plat prepared for the #2 well, as a result of the well file being taken to the well site by the geologist.

I apologize for the oversight on our part in not mailing these to you at the same time they were sent to the District Engineer with the U.S.G.S. On November 8th we mailed a copy of the above Application and plat to you, but apparently it has not found its way to your desk. I hope that the enclosed information will complete your files to date. Rest assured that in the future we will attempt to eliminate these oversights.

Yours very truly,


Kenneth D. Luff

KDL:pd

Enc.

**Mr. Kenneth D. Luff
210 Patterson Building
Denver, Colorado 80202**

**Re: Well No's. Pan American Federal
#1, and Pan American Federal #2,
Sec. 9, T. 7 S., R. 23 E.,
Uintah County, Utah.
For the months of November &
December, 1968.**

Dear Mr. Kenneth D. Luff:

Our records indicate that you have not filed a Monthly Report of Operations for the month(s) mentioned above for the subject well. Rule C-22 (1), General Rules and Regulations and Rules of Practice and Procedure, Utah State Division of Oil and Gas Conservation requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1b, (U. S. Geological Survey 9-331, "Sundry Notices and Reports on Wells"), or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your cooperation with respect to this request is greatly appreciated.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

SHARON CAMERON
RECORDS CLERK

sc

Enclosure: Form OGC-1b

THE STATE OF UTAH
DIVISION OF OIL AND GAS CONSERVATION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Handwritten initials

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 Kenneth D. Luff</p> <p>3. ADDRESS OF OPERATOR 210 Patterson Building, Denver, Colorado 80202</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 819 fw1 x 1623 fn1 ✓</p>	<p>5. LEASE DESIGNATION AND SERIAL NO. U-02651</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p> <p>7. UNIT AGREEMENT NAME Walker Hollow</p> <p>8. FARM OR LEASE NAME Pan American</p> <p>8. WELL NO. #1</p> <p>10. FIELD AND POOL, OR WILDCAT Walker Hollow</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 9, T7S - R23E</p> <p>12. COUNTY OR PARISH Uintah</p> <p>13. STATE Utah</p>
<p>14. PERMIT NO. Approved 11/12/68</p>	<p>15. ELEVATIONS (Show whether DF, RT, OR, etc.) 5068 Ground</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 checked="" type="checkbox"/>	REPAIRING WELL <input checked="" 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.)*
1. Set drillable bridge plug @ 5380, pressure up on bridge plug, set RTTS tool @ 5360 and stage squeezed perforations at 5365-67 with 300 sacks of Type G cement.
 2. Drilled out cement to 5535 with no water flow.
 3. Reperforated with 1/2" Hyperjet 5384-96, 5426-28, 5441-46 and 5451-59 with one shot/foot. No water flow.
 4. Acidized with 2000 gallons of HCl with 45 RCN balls.
 5. Swabbed back spent acid water and swab tested well. Had shut off on water flow with good oil and gas recovery.
 6. Ran tubing and rods.
- Installing surface facilities and building tank battery.

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

SIGNED *Kenneth D. Luff* TITLE Operator DATE 1/27/69

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*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

5. LEASE DESIGNATION AND SERIAL NO.

U-02651-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Walker Hollow

8. FARM OR LEASE NAME

Pan American

9. WELL NO.

#1

10. FIELD AND POOL, OR WILDCAT

Walker Hollow

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

9-7S-23E

12. COUNTY OR PARISH
Uintah

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

Kenneth D. Luff

3. ADDRESS OF OPERATOR

210 Patterson Building, Denver, Colorado

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

At surface

At top prod. interval reported below
1623' snl x 819' ewl

At total depth

Same

14. PERMIT NO. DATE ISSUED
11-18-68

15. DATE SPUDED 16. DATE T.D. REACHED 17. DATE COMPL. (Ready to prod.) 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 19. ELEV. CASINGHEAD

1-1-68 11-17-68 1-30-69 5079 RB 5070

20. TOTAL DEPTH, MD & TVD 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS

5517 5484 4 → yes

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 25. WAS DIRECTIONAL SURVEY MADE

5384-5459 Green River

No

26. TYPE ELECTRIC AND OTHER LOGS RUN 27. WAS WELL CORED

ES, CBL

No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
5 1/2"	14#	5515	7 7/8	280 cu. # primary 350 cu. # CDV Tol squeeze 300	None
8 5/8"	24#	160	12 1/4		

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 7/8	5488	No

31. PERFORATION RECORD (Interval, size and number) 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

5384-86-88, 5390-91-95-96, 5426-27-28,
5441-43-44-45-47, 5451-53-54-55-57-58
-59. 1/2" hyperjet 1/shot

DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED
perfs. as listed 2000 gal Hcl (15%)

33.* PRODUCTION

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

1-30-69 Pumping, 2" Volume producer. Prod

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

2-4-69 24 None → 38 114 mcf 186 300

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

99 50 → 38 114 mcf 186 32

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

Use on lease. A.W. Jay

35. LIST OF ATTACHMENTS

IES Log, CBL Log, Geologic Report, Mud Log.

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

SIGNED [Signature] TITLE DATE 2-27-69

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.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES		38. GEOLOGIC MARKERS	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
TOP		BOTTOM	
NAME	MEAS. DEPTH	TOP	
TRUB VEET. DEPTH			
See Copy of Attached Geologic Report.			

FEB 28 1942

KENNETH D. LUFF

#1 Pan American Walker Hollow Unit

SW NW Section 9, T7S - R23E

Uintah County, Utah

WELL SUMMARY

OPERATOR: Kenneth D. Luff

WELL: #1 Pan American Walker Hollow

LOCATION: 1623' sn1 & 820' ew1, Section 9, T7S - R23E
Uintah County, Utah

ELEVATION: Graded Ground 5068' KB 5079'

CONTRACTOR: Barker Well Service

RIG TYPE: 1 Deco H-35 Dr 701 Rig #5

COMMENCED: November 1, 1968

COMPLETED: November 22, 1968

TOTAL DEPTH: 5517' Driller

LITHOLOGY: J. C. Martinets, Jr.

CASING: Surface: Ran 160' (5 joints) of 8-5/8", 24#, H-40 casing
set at 159' KB. Cemented with 100 sacks 50-50
pozmix, 3% CACL2. Good circulation throughout
job.
Production: Ran 171 joints (5515.74') of 5-1/2", 14#, ST&C,
8 rd, R-2 production casing. Set at 5515' KB.
Cemented with 280 cu. ft. Howco D.V. Tool at
4803.98'

HOLE SIZE: 12-1/4" from surface to 174', 7-7/8" from 174' to 5517'

CORES: None

DST's: None

LOGGING SERVICES: Schlumberger Dual Induction-Laterolog from 200' to 2952'
Schlumberger Electrical Log from 3573' to 4096' and
from 4345' to 5475'
Rocky Mountain Geo-Engineering Mud Log from 4600' to 5517'

FORMATION TOPS

<u>Formation</u>	<u>Depth</u>
Green River	2820'
"H" Marker	4678'
"I" Marker	4871'
"J" Marker	5205'
"K" Marker	5362'

CHRONOLOGIC WELL HISTORY

- 10-31-68 Rigging up Barker Well Service Rig #5. Mixing spud mud. Drilling rat hole at 11:00 a.m.
- 11-1-68 Drilling rat hole. Spudded 12-1/4" surface hole at 1:30 a.m. Drilled ahead to 174' at 8:30 a.m. Trip out. Ran 160' (5 Joints) of 8-5/8", 24#, H-40, surface casing. Cemented with 100 sacks 50-50 pozmix, 3% CACL2. Good circulation throughout job. Plug down at 12:00 noon. W.O.C. Nippling up.
Total footage = 174'
- 11-2-68 W.O.C. Rigged up and drilling mouse hole. Tested BOP with 600 psi - OK. Drilling cement and plug at 5:00 a.m. Drilling new 7-7/8" hole with New Bit #1 with water at 6:15 a.m. Drilled ahead with water to 1564'. Trip for New Bit #2 at 1564'. Survey at 1564' = 1/4°.
Total footage = 1390'
- 11-3-68 Finished trip in hole with New Bit #2. Drilled 7-7/8" hole with water and mud to 2803'. Trip for New Bit #3 at 2395'. Jacked stand pipe up, rigged up fillup line, put 3" valve on mud line, cleaned pits. Survey at 2395' = 3/4°, at 2800' = 1-1/4°. Trip for New Bit #4 at 2803'. Mudded up.
Total footage = 1239'
- 11-4-68 Finished trip in hole with New Bit #4. Tite hole, washed 30 ft. to bottom. Drilled 7-7/8" hole with mud to 3124'.
Total footage = 321'
- 11-5-68 Drilled 7-7/8" hole with mud to 3385'. Trip for New Bit #5 at 3242'. Washed 25' to bottom. Survey at 3240' = 1°.
Total footage = 261'

Pan American #1 - continued
Page Three

- 11-6-68 Drilled 7-7/8" hole with mud to 3695'. Total footage = 310'
- 11-7-68 Drilled 7-7/8" hole with mud to 3966'. Put new head in pump.
Total footage = 271'
- 11-8-68 Drilled 7-7/8" hole with mud to 4203'. Put new rod in C-250
pump. Total footage = 237'
- 11-9-68 Drilled 7-7/8" hole with mud to 4322'. Trip for New Bit #6 at
4226'. Laying down drill pipe. Picked up H-90 drill pipe.
Bearings out of one cone on Bit #5. Trip in hole with junk sub
and New Bit #6. Washed 30' to bottom. Trip for New Bit #7 at
4322'. Survey at 4226' = 1/2⁰. Total footage = 119'
- 11-10-68 Finished trip in hole with New Bit #7. Washed to bottom 1/2 hours.
Drilled 7-7/8" hole with mud to 4604'. Total footage = 282'
- 11-11-68 Drilled 7-7/8" hole with mud to 4862'. Put head and liner in pump
offside - 1-1/2 hours. Total footage = 258'
- 11-12-68 Drilled 7-7/8" hole with mud to 5057'. Trip for New Bit #8 at
5057'. Strapped out of hole. Correct-plus 2'. Actual trip at
5059'. Survey at 5057' = 1-1/4⁰. Total footage = 195'
- 11-13-68 Cut drilling line. Washed 60' to bottom with New Bit #8. Drilled
7-7/8" hole with mud to 5173'. Total footage = 116'
- 11-14-68 Drilled 7-7/8" hole with mud to 5256'. Trip for New Bit #9 at
5193'. Washed 15' to bottom. Trip for New Bit #10 at 5254'.
Survey at 5193' = 1-1/2⁰. Total footage = 83'
- 11-15-68 Drilled 7-7/8" hole with mud to 5374'. Trip for New Bit #11 at
5344'. Washed to bottom 3/4 hours. Survey at 5344' = 1/2⁰.
Total footage = 118'
- 11-16-68 Drilled 7-7/8" hole with mud to 5517'. Trip for New Bit #12 at
5406'. Washed 8' to bottom. Circulate and condition mud for logs.
Total footage = 143'

- 11-17-68 Circulating. Short Trip 15 stands. Circulate 2 hours, trip out to run logs. Logs wouldn't go past 2300'. Trip in hole. Hit bridge at 3259'. Drilled out bridge, lost circulation (approx. 300 bbls.). Mixing mud and LCM. Trip out of hole - pulling wet pipe. Went back in with Schlumberger. Hit bridge at 2952'. Ran Dual Induction-Laterolog from 2952' to 200'. Trip back in hole to re-condition.
Total footage = 0'
- 11-18-68 Conditioning mud and hole. Water flow is cutting mud and causing the Uintah to start sloughing.
Total footage = 0'
- 11-19-68 Continuing to attempt to get logs run. Hole getting in worse shape, water flow still tearing up mud system. Lay down drill collars. On trip out had tite hole. After laying down collars, went back in hole to drill out bridges.
Total footage = 0'
- 11-20-68 Continuing to mix mud and condition for logs. Building weight and volume. Hole in bad shape. Decided to run E-Log through drill pipe.
Total footage = 0'
- 11-21-68 Conditioning mud and hole. Trip out and drill through bridges. Trip in hole open ended. Ran Schlumberger Electrical Log from 3573' to 4096' where hit bridge. Ran in hole with 12 more stands. Ran Schlumberger Electrical survey thru drill pipe from 4345' to 5475'. Conditioning mud.
Total footage = 0'
- 11-22-68 Condition mud and hole prep to run 5-1/2" casing. Laying down drill pipe. Ran 171 joints (5515.74') of 5-1/2", 14#, ST&C, 8rd, R-2 production casing. Set at 5515' KB. Antelope scratchers on bottom 225'. Antelope centralizers on bottom 7 joints, one in middle of each joint. Howco D.V. Tool at 4803.98'. Cemented 1st stage with 280 cu. ft.

MIDNITE DRILLING DEPTHS

<u>Date</u>	<u>Depth</u>	<u>Footage</u>
11-1-68	174'	174'
11-2-68	1564'	1390'
11-3-68	2803'	1239'
11-4-68	3124'	321'
11-5-68	3385'	261'
11-6-68	3695'	310'
11-7-68	3966'	271'

MIDNITE DRILLING DEPTHS - continued

<u>Date</u>	<u>Depth</u>	<u>Footage</u>
11-8-68	4203'	237'
11-9-68	4322'	119'
11-10-68	4604'	282'
11-11-68	4862'	258'
11-12-68	5057'	195'
11-13-68	5173'	116'
11-14-68	5256'	83'
11-15-68	5374'	118'
11-16-68	5517'	143'
11-17-68	5517'	0' logging

BIT RECORD

<u>No.</u>	<u>Size</u>	<u>Make</u>	<u>Type</u>	<u>In</u>	<u>Out</u>	<u>Footage</u>	<u>Hours</u>	<u>Serial No.</u>
-	12-1/4			0'	174'	174'	6-1/2	RR
1	7-7/8	HTC	OSC3J	174'	1564'	1390'	12-1/2	65156
2	7-7/8	Smith	DTTJ	1564'	2395'	831'	9	42109
3	7-7/8	Smith	DG	2395'	2803'	408'	5-1/2	30138
4	7-7/8	HTC	X55R	2803'	3242'	439'	27-1/2	ZM095
5	7-7/8	Smith	554-J	3242'	4226'	984'	83	N8721
6	7-7/8	Smith	C-2	4226'	4322'	96'	10-1/2	24517
7	7-7/8	Smith	SS-4	4322'	5057'	735'	66-1/4	N8733
8	7-7/8	HTC	Rx55R	5057'	5193'	145'	24	BF882
9	7-7/8	Smith	C-2	5193'	5254'	61'	10	24475
10	7-7/8	Reed	YBVG-J	5254'	5344'	90'	12-3/4	X27149
11	7-7/8	Smith	T-2	5344'	5406'	62'	11-1/4	19287
12	7-7/8	Reed	YBVG-J	5406'	5517'	111'	12-1/4	P37736

DEVIATION SURVEYS

<u>Depth</u>	<u>Deviation</u>	<u>Weight on Bit</u>	<u>Pump Pressure</u>	<u>RPM</u>
1564'	1/4°	All	1100#	150
2395'	3/4°	All	1100#	150
2800'	1-1/4°	30-35,000#	1100#	55
3240'	1 0	30-35,000#	1100#	55
4226'	1/2°	30-35,000#	1000#	60
5057'	1-1/4°	30-35,000#	600#	80
5193'	1-1/2°	35-40,000#	1000#	55-70
5344'	1/2°	45,000#	650#	75

DAILY MUD CHARACTERISTICS

<u>Date</u>	<u>Depth</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>W/L</u>	<u>Ph</u>	<u>Sd %</u>	<u>Solids %</u>
11-4-68	2976'	Gel-chem	9.05	36	8.0	8.5	1/2 1%	5%
11-5-68	3267'	Gel-chem	9.0	36	8.0	8.0	1/2 1%	5%
11-6-68	3495'	Gel-chem	9.1	38	7.4	8.0	1/2 1%	6%
11-7-68	3815'	Gel-chem	9.15	37	7.0	8.5	1/2 1%	6 1/2%
11-8-68	4048'	Gel-chem	9.15	42	7.0	8.0	1%	6 1/2%
11-9-68	4226'	Gel-chem	8.9	34	7.5	8.0	None	4%
11-10-68	4404'	Gel-chem	9.25	43	7.0	9.0	1%	6 1/2%
11-11-68	4689'	Gel-chem	9.15	40	6.8	8.5	1/2 1%	6%
11-12-68								
3:00p.m.	5005'	Gel-chem	9.2	40	6.0	8.5	1/2 1%	6 1/2%
11-12-68								
9:45p.m.	5057'	Gel-chem	9.4	41	6.0			
11-13-68	5115'	Gel-chem	9.4	40	6.0	8.5	1/2 1%	8%
11-14-68	5199'	Gel-chem	9.55	40	5.8	9.0	1/2 1%	9%
11-15-68	5330'	Gel-chem	9.55	45	5.6	9.0	1/2 1%	9%
11-16-68								
9:00a.m.	5406'	Gel-chem	9.45	42	6.0	9.0	1/2 1%	8%
11-16-68								
11:00a.m.	5517'	Gel-chem	9.7	65	5.6	9.0	1/2 1%	

Prep to log.

LITHOLOGY

- 4500-70 Interbeds of sandstone, fine grain, clear to light gray, hard, occasional ostracods, some black grains giving S & P, and shale, gray green, some siltstone, hard, light gray.
- 4570-4600 As above but mostly shale, gray-green, some brownish-red, some mottled, and some white bentonite.
- 4600-4700 Mostly shale, light green, gray, and some red, and some sandstone, gray to clear, very fine to fine grain, friable to medium-cement, slight calc, some siltstone, and sandstone (4710-70) (see below).
- 4710-70 Sandstones throughout this interval: light -to-brown, coarse grain, sub-rounded/sub-angular, friable with good live oil stain and yellow fluorescence, good streaming cut, and some fine/medium grain sandstone, poor to medium cement, dull yellow fluorescence with slow cut, tite.
- 4800-50 Shale, light, pale green, gray-brown, mottled, some light gray siltstone, and some sandstone, white to clear, grain size varies from very fine to medium, slight S & P in part, mostly friable but some fine grain sandstone, hard, no shows.
- 4850-60 As above but mostly vari-colored shales.
- 4860-70 Interbeds of shale as above, sandstone, light gray, gray, clear, fine grain, poor cement, tite, shaley in part, and trace medium to coarse grain, clear, occasional dark grains, fair cement, no porosity, no shows.
- 4870-4900 Siltstone, white to light gray, firm, and shales and sandstone as before, no shows.
- 4900-10 Interbeds of shale, siltstone, and sandstone as above.
-
- 4910-20 As above with much limestone, light tan, mottled coarse texture to cryptocrystalline, crystalline, some ostracodal.
- 4920-30 Sandstone, fine to medium grain, white, friable to fair cement, occasional slight S & P, well sorted, fair porosity, no show, and shale, light green, gray, and trace limestone as above.
- 4930-50 As above with increase in shale, and some mottled.
- 4950-60 Interbeds of vari-colored shales, and sandstone, white, firm grain, tite, hard, no shows.
- 4960-70 Sandstone, fine/medium grain, white, well sorted, mostly well cemented, tite, weak, dull yellow fluorescence, and shales as before.

LITHOLOGY - continued

- 4970-90 Sandstone as above, mostly fine grain, but no show.
- 4990-5000 Shale, light green, gray, mottled brown, trace sandstone as above and trace limestone, mottled dark brown, fossiliferous.
- 5000-30 Sandstone, fine grain to very fine grain, clear to light gray, very slight S & P, hard, tite, no shows, trace shales as before.
- 5030-50 Interbeds of fine grain sandstone as above, no show, and shales, light pale green, light gray, and some mottled gray-brown-red, trace brown, coarse texture limestone, trace bent.
- 5050-60 Sandstone, fine grain, white, firm, tite, no show, and sandstone, medium grain, clear to white, well sorted, sub-rounded, porous, friable, no show, and shale, light green to gray.
- 5060-70 Sandstone's and shales as before with trace limestone, light tan to dark gray, coquinal.
- 5070-5100 Vari-colored shales, but with traces of sandstone as above, light gray siltstone, and slight limestone, coquinal, tan to gray.
- 5100-10 As above but more siltstone.
- 5110-20 Vari-colored shales as before, and mottled shales, trace sandstone, white, fin/medium grain, no shows, trace limestone, buff, coarse.
- 5120-30 Limestone, buff, coarse textured, coquinal, traces shales and sandstone as before.
- 5130-40 Siltstone, light gray to gray, hard, some shale, green, tray, red-brown.
- 5140-50 Sandstone, white to light gray, fine to occasional medium grain, medium cement to friable, well sorted, fair porosity, no shows, and shale, pale grays and greens, trace siltstone as above.
- 5150-60 Sandstone, white/light gray, fine to very fine grain, firm, tite, no shows, and coquinal limestone, S & P with light and dark gray grains, some sandy, some light gray siltstone, and shale as before.
- 5160-70 As above but grain size slight larger.
- 5170-5200 Interbeds of vari-colored shales and fine grain sandstone as before, no shows.

LITHOLOGY - continued

- 5200-10 Shale, light gray, light green, red-brown, mottled siltstone, light gray, gray, hard, occasional shaley, some sandstone fine grained, light gray, occasional S & P with round block grains, possible ostracods, no show.
- 5210-30 Sandstone, fine grain, white, light gray, firm to only medium cement, no shows, and sandstone, fine to medium grain, gray with S & P from block, rounded gr-ains, hard, no shows, a-nd shales as above.
- 5230-40 Sandstone, fine grain, white, only medium cement, well sorted, no shows, with vari-colored shales.
- 5240-50 Interbeds of fine grain, white sandstone as above with no shows and vari-colored shales.
- 5250-60 Sample missing - assumed as above.
- 5260-5300 Equal interbedding of shales, light green, light gray, brown + red-brown, and fine grain, sandstones as before, no shows, some siltstone, light gray, hard, trace tan limestone, light tan, very minor trace sandstone, fine grain, clear to light tan, some oil staining but scattered and black, appears dead, no fluorescence, wet, and many loose sand grains in samples, medium to coarse grained, sub-rounded.
- 5300-30 Mostly vari-colored shales as before, but also with fine grain sandstone's as before, no shows, traces light to dark brown limestone, vari-textured.
- 5330-50 Sandstone, white to lite gray, both fine and medium grain, well sorted, medium grain is friable and with good porosity, fine grain is medium cement, tite, no shows, one chip sandstone, fine grain, light brown, good porosity, live oil stain, bright yellow fluorescence, poor cut, except good when crushed, friable, also shales as before and much unconsolidated sand.
- 5350-60 Shale, vari-colored, but very much gray/light gray, silty, trace light gray siltstone.
- 5360-70 As above and with some sandstone, fine to almost medium grain, fair sort, good to poor porosity, friable, live oil stain, gold fluorescence, good cut. Staining seems light, may be wet (?).

LITHOLOGY - continued

- 5370-80 Vari-colored shales.
- 5380-90 Sandstone, fine and medium grain, light brown-gray, generally well sorted, friable to poor/medium cement, good live oil stain, gold fluorescence, excellent streaming cut, some fine grain sandstone, white, no shows, and shales as before.
- 5390-5400 As above but slight decrease in sandstone.
- 5400-10 Sandstone, fine/medium grain, light brown from live oil stain, well sorted, friable to medium cement, porous, yellow fluorescence, good cut, and shales as before.
- 5410-20 Vari-colored shales, trace light gray silstone.
- 5420-40 Shales as before and some sandstone, white, fine grain, no shows, and some chert or flint (?) light gray.
- 5440-50 Sandstone, fine/medium grain, medium/poorly cemented, well sorted, live oil stain, good yellow fluorescence and good streaming cut, shales, vari-colored and trace dark gray chert.
- 5450-60 As above and with sandstone, coarse grain, sub-angular, poorly sorted, medium cement, mottled gray and brown, porosity looks fair, live oil stain, yellow fluorescence, good cut.
- 5460-80 Vari-colored shales as before, including trace, dark brown oil shale, trace light gray chert, traces of sandstone's as above.
- 5480-5517 Sandstone, fine grain, white, clean, medium to good cement, no oil stain but has dull fluorescence and shale as above, and apparent traces of sandstone with oil stain from above zones.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U=02651-A

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.)

1.

OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

Kenneth D. Luff

3. ADDRESS OF OPERATOR

2180 Colo. State Bank Bldg., Denver, Colo., 80202

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

1623' SNL x 820' EWL

7. UNIT AGREEMENT NAME

Walker Hollow

8. FARM OR LEASE NAME

Pan American

9. WELL NO.

#1

10. FIELD AND POOL, OR WILDCAT

Walker Hollow

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

Sec. 9-T7S-R23E

14. PERMIT NO.

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

5079' KB

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

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.)*

Plug and abandon as follows:

1. 20 sack plug from 5300-5480 (across perfs 5384-5429)
2. 35 sack plug above stub of 5 1/2" casing.
3. 35 sack plug from 2000' to 1800' if recovery of 5 1/2" casing is greater than 2000'.
4. 35 sack plug in base of surface casing set to 160'.
5. 10 sack plug with marker in top of surface casing.

Verbal approval of above procedure approved 7/15/74 by Gerald Danials.

APPROVED BY DIVISION OF
OIL & GAS CONSERVATION

DATE JUL 17 1974

BY *Clayton B. Fugle*

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

SIGNED

Kenneth D. Luff

TITLE

Operator

DATE

7/15/74

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN THIS MANNER
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-02651-A

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.)

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Walker Hollow

8. FARM OR LEASE NAME

Pan American

9. WELL NO.

#1

10. FIELD AND POOL, OR WILDCAT

Walker Hollow

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

Sec. 9-T7S-R23E

12. COUNTY OR PARISH 13. STATE

Uintah

Utah

1.

OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

Kenneth D. Luff

3. ADDRESS OF OPERATOR

1730 Colo. State Bank Bldg, Denver, Colo. 80202

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

At surface

1623' SNL X 820' EWL

14. PERMIT NO.

43-047-30037

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

5079' KB

16.

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

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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*

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Verbal approval of above procedure approved 7-15-74 by Gerald Danials.

RECEIVED JUL 10 1975

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

SIGNED

USGS 4/1/75
[Signature]

TITLE

Operator

DATE

6-30-75

(This space for Federal or State office use)

APPROVED BY

[Signature]

TITLE

DATE

1/16/75

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Opp