

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*

5. LEASE DESIGNATION AND SERIAL NO.

NM 0559175

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Dagger Draw

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Undesignated

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

30-19S-25E

12. COUNTY OR PARISH

Eddy

13. STATE

N. Mex.

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

Roger C. Hanks

3. ADDRESS OF OPERATOR

2100 Wilco Building, Midland, Texas 79701

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

At surface 660' FW&NE 660N+W

At top prod. interval reported below 7720'

At total depth 7860'

14. PERMIT NO.

DATE ISSUED

O.C.C.
ARTESIA, OFFICE

OCT 15 1970

15. DATE SPUDDED 5-7-70

16. DATE T.D. REACHED 6-18-70

17. DATE COMPL. (Ready to prod.) 7-11-70

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 3565' GR

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 7860'

21. PLUG, BACK T.D., MD & TVD

22. IF MULTIPLE COMPL., HOW MANY* Single

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

Ard

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

7782-94', 7720-30', 7738-44', 7756-66' Bough "C"

25. WAS DIRECTIONAL SURVEY MADE

Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

Sidewall Neutron, Induction-Electric & Comp. Acoustic Velocity

27. WAS WELL CORED

Yes

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	48#	930'	17 1/2"	900 SX.	
7"	36# N-80	7,859'	8 3/4"	400 SX.	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8"		7685'

31. PERFORATION RECORD (Interval, size and number)

7782-94')
7720-30') 4 shots per foot,
7738-44') Wes-jet Magnum
7756-66')

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7782-94'	2000gal. 15% acid
7720-66'	2000 gal. DS 30 acid

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
7-11-70		Kobe				Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
10-8-70	24		→	125	Est. 275	864	220/1
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
		→	125	Est. 275	864	44	

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

Vented

TEST WITNESSED BY

Bobbie Cone

35. LIST OF ATTACHMENTS

Logs

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

SIGNED

Wanda Sanders

TITLE

Production Clerk

DATE

*(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.)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	38. GEOLOGIC MARKERS		
				NAME	MEAS. DEPTH	TRUE VERT. DEPTH
	0	320	Shale & sand			
	320	640	Limestone & dolomite with shale	Wolfcamp	6406'	-822
	640	4590	Mostly shale with intermittent streaks of limestone & dolomite			
	4590	7520	Limestone with dolomite & shale streaks	Cisco Canyon	7705	-4121
	7520	7860'	Dolomite			
			See attached for DST			

- DST #1 From 7705' to 7742'. Initial hydrostatic pressure 3620#. 20 min. preflow. 60 min. ISIP 3076#. 60 min. IFP 142#. FFP 215#. FSIP 3054#. Final hydrostatic pressure 3620#. Temp. 118°. Recovered 630' total fluid: 300' free oil. 330' heavy oil and gas cut salt water. 100' salt water.
- DST #2 From 6406' to 6426'. Initial hydrostatic pressure 2992#. 20 min. preflow. 60 min. ISIP 2219#. IFP 64#, FFP 75#. 60 min. FSIP 1962#. Final hydrostatic pressure 2992#. Temp. 110°. Recovered 150' total fluid: 150' muddy salt water slightly gas cut.
- DST #3 From 7670' to 7700'! Initial hydrostatic pressure _____. 20 min. preflow. 60 min. ISIP 3071#. 120 min. IFP 257#. FFP 310#. FSIP 2917#. Temp. 118°. Recovered 720' total fluid: 610' heavy gas cut slightly oil cut sulphur water, 110' heavy gas cut slightly oil cut sulphur water.
- DST #4 Packer failed.
- DST #5 From 7744' to 7797'. 24 min. preflow. 60 min. ISIP 3057#. Initial hydrostatic pressure 3676#. 180 min. IFP 662#. FFP 2158#. 90 min. FSIP 3047#. FHP 3676#. Reversed out 7,000' fluid, or 98 bbls, 75 bbls. heavy oil & gas cut muddy water. 50% oil, 23 bbls. salt water. 150' sulphur and salt water.



FOSTER TESTERS, INC.

ODESSA, TEXAS

TEST TICKET NO. 2363

ORDER NO. _____

DATE JUNE 16, 1970

COMPANY ROGER C. HANKS LEASE DAGGER DRAW UNIT WELL NO. 1
660 N + W 30-19-25
FIELD WILDCAT COUNTY EDDY STATE NEW MEXICO TEST NO. 1

MAIL CHARTS TO ROGER C. HANKS 606 WALL TOWERS WEST, MIDLAND, TEXAS 79701MAIL INVOICE TO SAME

FORMATION TESTED CISCO CANYON TOTAL DEPTH 7742' MAIN HOLE 8 3/4" RAT HOLE -
INTERVAL TESTED FROM 7705' TO 7742' PACKER TYPE B - T SIZE 7 1/2" NUMBER 2
DRILL PIPE SIZE 4 1/2 XH I.D. 3.80 DRILL COLLAR SIZE 5" H 90 I.D. 2.50
TIME PACKER SET 7:38 A.M. P.M. PACKER SET 3 HRS. 23 MIN. PRE FLO TIME 20 MINS.
INITIAL FLOW 60 MINS. 2ND FLOW - MINS. FINAL FLOW - MINS.
INITIAL SHUT-IN 60 MINS. 2ND SHUT-IN 60 MINS. FINAL SHUT-IN - MINS.
RECORDER TYPE AK - 1 CAPACITY 7,500-9500 NUMBER: TOP 2,837' BOTTOM 1,261'
TOP RECORDER DEPTH 7,737' BOTTOM RECORDER DEPTH 7,742'
MAX. TEMP. 118° TEMP. DEPTH 7,737' CHOKE SIZE: TOP 1" ADJ BOTTOM 5/8"
MUD TYPE - MUD WEIGHT 8.8 VISCOSITY 39 FILTER CAKE 2/32 WTR. LOSS 12.8
FLUID CUSHION TYPE - AMOUNT - REVERSED OUT - YES NO X
CONVENTIONAL TEST YES STRADDLE TEST - CASING TEST - MISS RUN -
SECOND ASSEMBLY YES ROTARY JAR YES SAFETY JOINT YES
SAMPLER YES X NO - FFE FLOW TOOL YES X NO - CIRC. SUB YES - NO X
SURFACE ACTION: -

RECOVERED 630' TOTAL FLUID. 300' FREE OIL.
330' HEAVY OIL AND GAS CUT SALT WATER.
100' SALT WATER CHLORIDES 6,000 P.P.M - 0.84 @ 74° RESISTIVITY.
GRAVITY OF OIL 43.6 @ 72°.

RECOVERY: 100# PRESSURE ON SAMPLER. 1.1 CUBIC FT. GAS.
260 C. C. OIL SLIGHTLY MUD CUT

REMARKS: _____

TESTER B. E. DAVISTEST APPROVED BY BILL PROBANT

	RECORDER NO. 2837		RECORDER NO.		RECORDER NO.
A INITIAL HYDROSTATIC PRESSURE	3620 P.S.I.			P.S.I.	P.S.I.
B INITIAL SHUT IN PRESSURE	3076 P.S.I.	B-1		P.S.I.	P.S.I.
C INITIAL FLOW PRESSURE	142 P.S.I.	C-1		P.S.I.	P.S.I.
D FINAL FLOW PRESSURE	215 P.S.I.	D-1		P.S.I.	P.S.I.
E FINAL SHUT IN PRESSURE	3054 P.S.I.			P.S.I.	P.S.I.
F FINAL HYDROSTATIC PRESSURE	3620 P.S.I.			P.S.I.	P.S.I.



FOSTER TESTERS, INC.

ODESSA, TEXAS

TEST TICKET NO. 2354

ORDER NO.

DATE JUNE 5, 1970

COMPANY ROGER C. HANKS

LEASE DAGGER DRAW UNIT WELL NO. 1

FIELD WILDCAT COUNTY EDDY

660 NW 30-19-25
STATE NEW MEXICO TEST NO. 2

MAIL CHARTS TO AS DIRECTED

MAIL INVOICE TO ROGER C. HANKS, 606 WALL TOWERS WEST, MIDLAND, TEXAS 79701

FORMATION TESTED WOLFCAMP LIME TOTAL DEPTH 6,426' MAIN HOLE 8 3/4" RAT HOLE -
INTERVAL TESTED FROM 6,406' TO 6,426' PACKER TYPE BT SIZE 7 1/2" NUMBER 2
DRILL PIPE SIZE 4 1/2"XH I.D. 3.80" DRILL COLLAR SIZE 5"H90 I.D. 2.50"
TIME PACKER SET A.M. 9:58 P.M. PACKER SET 3 HRS. 20 MIN. PRE FLO TIME 20 MINS.
INITIAL FLOW - MINS. 2ND FLOW - MINS. FINAL FLOW 60 MINS.
INITIAL SHUT-IN 60 MINS. 2ND SHUT-IN - MINS. FINAL SHUT-IN 60 MINS.
RECORDER TYPE AK-1 CAPACITY 7500# 9500# NUMBER: TOP 2837 BOTTOM 1261
TOP RECORDER DEPTH 6,421' BOTTOM RECORDER DEPTH 6,426'
MAX. TEMP. 110° TEMP. DEPTH 6,421' CHOKE SIZE: TOP 1" ADJ. BOTTOM 5/8"
MUD TYPE - MUD WEIGHT 8.8 VISCOSITY 37 FILTER CAKE 2/32 WTR. LOSS 13.8
FLUID CUSHION TYPE - AMOUNT - REVERSED OUT YES NO X
CONVENTIONAL TEST YES STRADDLE TEST - CASING TEST - MISS RUN -
SECOND ASSEMBLY YES ROTARY JAR YES SAFETY JOINT YES
SAMPLER YES X NO FFE FLOW TOOL YES X NO CIRC. SUB YES NO X
SURFACE ACTION: TOOL OPENED WITH A GOOD BLOW CONTINUED THROUGH PRE FLOW WITH A
GOOD BLOW. OPENED WITH A GOOD BLOW AFTER INITIAL SHUT IN.
STARTED DECREASING AFTER 20 MINUTES, DECREASED TO A VERY WEAK
BLOW AT END OF TEST.

RECOVERY: 150' TOTAL FLUID: 150' MUDDY SALT WATER SLIGHTLY GAS CUT.
22,000 P.P.M. CHLORIDES. RESISTIVITY 0.28 @ 68°.

SAMPLER CONTENTS: 50# PRESSURE. .25 CU. FT. GAS.
450 cc SALT WATER.

REMARKS: 20 MINUTE PRE FLOW. 20' PERFORATION. 500' TOTAL DRILL COLLAR LENGTH.

TESTER B. E. DAVIS

TEST APPROVED BY W. T. PROBANT

	RECORDER NO. 2837		RECORDER NO.		RECORDER NO.
A INITIAL HYDROSTATIC PRESSURE	2992	P.S.I.		P.S.I.	P.S.I.
B INITIAL SHUT IN PRESSURE	2219	P.S.I.	B-1	P.S.I.	P.S.I.
C INITIAL FLOW PRESSURE	64	P.S.I.	C-1	P.S.I.	P.S.I.
D FINAL FLOW PRESSURE	75	P.S.I.	D-1	P.S.I.	P.S.I.
E FINAL SHUT IN PRESSURE	1962	P.S.I.		P.S.I.	P.S.I.
F FINAL HYDROSTATIC PRESSURE	2992	P.S.I.		P.S.I.	P.S.I.



FOSTER TESTERS, INC.

ODESSA, TEXAS

TEST TICKET NO. 2362

ORDER NO.

DATE JUNE 16, 1970

COMPANY ROGER C. HANKS

LEASE DAGGER DRAW UNIT WELL NO. 1

660N + 660W 30-19-25

FIELD COUNTY EDDY

STATE NEW MEXICO TEST NO. 3

MAIL CHARTS TO ROGER C. HANKS 606 WALL TOWERS WEST MIDLAND, TEXAS 79701

MAIL INVOICE TO SAME

FORMATION TESTED TOTAL DEPTH 7,700 MAIN HOLE 8 3/4" RAT HOLE -
INTERVAL TESTED FROM 7,670 TO 7,700 PACKER TYPE B-T SIZE 7 1/2" NUMBER 2
DRILL PIPE SIZE 4 1/2" XH I.D. 3.80 DRILL COLLAR SIZE 5" H 90 I.D. 2.50
TIME PACKER SET 11:03 A.M. P.M. PACKER SET 4 HRS. 22 MIN. PRE FLO TIME 20 MINS.
INITIAL FLOW 120 MINS. 2ND FLOW - MINS. FINAL FLOW - MINS.
INITIAL SHUT-IN 60 MINS. 2ND SHUT-IN 60 MINS. FINAL SHUT-IN - MINS.
RECORDER TYPE AK-1 CAPACITY 7,500 ± 9,500' NUMBER: TOP 2,837' BOTTOM 1,261'
TOP RECORDER DEPTH 7,695' BOTTOM RECORDER DEPTH 7,700'
MAX. TEMP. 118° TEMP. DEPTH 7,696' CHOKE SIZE: TOP 1" ADJ. BOTTOM 5/8"
MUD TYPE MUD WEIGHT 9 VISCOSITY 36 FILTER CAKE 2/32 WTR. LOSS 13
FLUID CUSHION TYPE - AMOUNT - REVERSED OUT YES YES NO
CONVENTIONAL TEST YES STRADDLE TEST - CASING TEST - MISS RUN -
SECOND ASSEMBLY YES ROTARY JAR YES SAFETY JOINT YES
SAMPLER YES X NO FFE FLOW TOOL YES X NO CIRC. SUB YES YES NO

SURFACE ACTION:

OPENED WITH A STRONG BLOW, GAS TO SURFACE IN 3 MINUTES.
FLOWED AT RATE 500,000 M. C. F.
GAS FLOW DECREASED TO 300.000 AT END OF SECOND FLOW

RECOVERY:

720' TOTAL FLUID RECOVERED.
610' HEAVY GAS CUT SLIGHTLY OIL CUT SULPHUR - WATER 6,000
P.P.M. RESISTIVITY 0.86 - 84°.
110' HEAVY GAS CUT SLIGHTLY OIL CUT SULPHUR WATER BELOW CIRCULATING
SUB.

REMARKS:

300# P.S.I. 2.4 CUBIC FT. GAS 100 C.C. SALT WATER.

TESTER

TEST APPROVED BY

	RECORDER NO. 2837	RECORDER NO.	RECORDER NO.
A INITIAL HYDROSTATIC PRESSURE	P.S.I.	P.S.I.	P.S.I.
B INITIAL SHUT IN PRESSURE	3071 P.S.I.	B-1 P.S.I.	P.S.I.
C INITIAL FLOW PRESSURE	257 P.S.I.	C-1 P.S.I.	P.S.I.
D FINAL FLOW PRESSURE	310 P.S.I.	D-1 P.S.I.	P.S.I.
E FINAL SHUT IN PRESSURE	2917 P.S.I.	P.S.I.	P.S.I.
F FINAL HYDROSTATIC PRESSURE	P.S.I.	P.S.I.	P.S.I.



FOSTER TESTERS, INC.

ODESSA, TEXAS

TEST TICKET NO. 2365

ORDER NO.

DATE JUNE 15, 1970

COMPANY ROGER C. HANKS

LEASE DAGGER DRAW UNIT WELL NO. #1

FIELD WILDCAT COUNTY EDDY

660 N+W 30-19-25 STATE NEW MEXICO TEST NO. #5

MAIL CHARTS TO ROGER C. HANKS 606 WALL TOWERS WEST MIDLAND, TEXAS 79701

MAIL INVOICE TO SAME

FORMATION TESTED TOTAL DEPTH 7,797 MAIN HOLE 8 3/4" RAT HOLE -
INTERVAL TESTED FROM 7,744 TO 7,797 PACKER TYPE B-T SIZE 7 1/4" NUMBER
DRILL PIPE SIZE 4 1/2" EX-H I.D. 3.80 DRILL COLLAR SIZE 5" H-90 I.D. 2 1/2"
TIME PACKER SET 7:50 P.M. PACKER SET 7 HRS. 56 MIN. PRE FLO TIME 24 MINS.
INITIAL FLOW 180 MINS. 2ND FLOW 70 MINS. FINAL FLOW - MINS.
INITIAL SHUT-IN 60 MINS. 2ND SHUT-IN 50 MINS. FINAL SHUT-IN 90 MINS.
RECORDER TYPE KUSTER CAPACITY 7500'-9500' NUMBER: TOP 2,837' BOTTOM 1,261'
TOP RECORDER DEPTH 7,787' BOTTOM RECORDER DEPTH 7,792'
MAX. TEMP. - TEMP. DEPTH 7,792' CHOKE SIZE: TOP 1" BOTTOM 5/8"
MUD TYPE - MUD WEIGHT 9 VISCOSITY 36 FILTER CAKE 1/32 WTR. LOSS 12
FLUID CUSHION TYPE NONE AMOUNT - REVERSED OUT X YES NO
CONVENTIONAL TEST YES STRADDLE TEST - CASING TEST - MISS RUN -
SECOND ASSEMBLY YES ROTARY JAR YES SAFETY JOINT YES
SAMPLER YES X NO FFE FLOW TOOL YES X NO CIRC. SUB YES X NO
SURFACE ACTION: OPEN WITH A STRONG BLOW. GAS TO SURFACE IN 4 MINUTES. FLOWING AT
750,000 M.C.F. DURING PRE FLOW. FLOWED AT RATE OF 6000.000 AFTER
INITIAL SHUT IN. OIL TO SURFACE IN 32 MINUTES. CLOSED CHOKE AT
SURFACE FOR 15 MINUTES AFTER OIL SURFACED. OPENED CHOKE FOR 10
MINUTES, CLOSED IN FOR 33 MINUTES. CHOKE OPEN AT SURFACE TOTAL
OF 62 MINUTES.

RECOVERY: REVERSED OUT 7,000' FLUID, OR 98 BARRELS, 75 BARRELS, HEAVY OIL
& GAS CUT MUDDY WATER. 50% OIL, 23 BARRELS SALT WATER. 150'
SULPHUR AND SALT WATER BELOW CIRCULATING SUB. RESISTIVITY
0.86. 78° CHLORIDES 6,000 P.P.M.

REMARKS:

TESTER FRANK WILLIAMS TEST APPROVED BY W. T. PROBANDT

	RECORDER NO. 2837	RECORDER NO.	RECORDER NO.
A INITIAL HYDROSTATIC PRESSURE	3676 P.S.I.	P.S.I.	P.S.I.
B INITIAL SHUT IN PRESSURE	3057 P.S.I.	B-1 3030 P.S.I.	B-2 3047 P.S.I.
C INITIAL FLOW PRESSURE	662 P.S.I.	C-1 1893 P.S.I.	P.S.I.
D FINAL FLOW PRESSURE	2158 P.S.I.	D-1 P.S.I.	P.S.I.
E FINAL SHUT IN PRESSURE	3047 P.S.I.	P.S.I.	P.S.I.
F FINAL HYDROSTATIC PRESSURE	3676 P.S.I.	P.S.I.	P.S.I.

NEW MEXICO OIL CONSERVATION COMMISSION

OPERATOR Roger C. Hanks ADDRESS 2000 Wilco Bldg. Midland, Texas
 FIELD Wildcat LEASE Dagger Draw WELL NO. 1
 LOCATION 660' ^N ~~ESE~~ & ^{660' ^W ~~1080' ^W~~ FWL} Sec. 30, T-19-S, R-25-E, Eddy Co., New Mexico

DEVIATION RECORD

Depth'	Degrees	Depth	Degrees
70	3/4	4500	3 1/2
140	3/4	4590	4 1/4
262	1/2	4650	4 1/4
470	1 1/4	4752	4 1/2
550	1 1/2	4788	4
626	3/4	4810	4 1/2
959	1 1/4	4872	4
1347	1 1/4	4999	3 1/4
1840	1 1/4	5094	2 3/4
2340	1 3/4	5180	2 1/2
2960	1 1/2	5270	2 3/4
3740	3 3/4	5443	2 1/4
3658	4	5714	1 3/4
3748	3 3/4	6426	1
3870	4	6770	3/4
4080	3 3/4	7700	1 1/2
4275	4 1/4	7797	1 1/4
4360	3 3/4		

RECEIVED

OCT 13 1970

O.C.C.
ARTESIA, OFFICE

Certification of personal knowledge of Deviation Record:

I hereby certify that I have personal knowledge of the data and facts placed on this form, and that such information is true and complete.

[Signature]
Signature

ARD DRILLING COMPANY
Company

STATE OF TEXAS
COUNTY OF MIDLAND

Before me, the undersigned authority, on this day personally appeared J. E. R. Sheeler, known to me to be the person whose name is subscribed hereto, who, after being duly sworn, on oath states that he is acting at the direction and on behalf of the operator of the well identified in this instrument and that such well was not intentionally deviated from the vertical.

[Signature]
Signature

Manager - Ard Drilling Company
Title

Sworn and Subscribed to before me, this the 25th day of June, 1970

[Signature]
Notary Public in and for Midland County,
Texas.

S. R. MCKINNEY, JR.

My Commission Expires 6-1-71