

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.

NM 0/45897

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Light

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 15, T8S, R37E

12. COUNTY OR PARISH

Roosevelt

13. STATE

New Mexico

19. ELEV. CANNINGHEAD

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

TOM L. INGRAM

3. ADDRESS OF OPERATOR

P. O. Box 1757, Roswell, New Mexico 88201

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

At surface 1980' FSL & 600' FEL of Section

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED

1-31-71

16. DATE T.D. REACHED

2-8-71

17. DATE COMPL. (Ready to prod.)

3-27-71

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

4023 KB, 4011.3 GR

19. ELEV. CANNINGHEAD

20. TOTAL DEPTH, MD & TVD

4815

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

4750

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOL

0 - TD

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

4630 - 4730 San Andres

25. WAS DIRECTIONAL SURVEY MADE

Totco

26. TYPE ELECTRIC AND OTHER LOGS RUN

Gamma ray - neutron

27. WAS WELL CORED

No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8	22#	376	11"	275	Circ.
5-1/2	14#	4815	7-7/8"	250	0

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8	4602	4577

31. PERFORATION RECORD (Interval, size and number)

4766, 67, 74, 76, 85, 86, 91, 93

4686, 90, 98, 4709, 13, 24, 30

4630, 32, 34, 42, 52, 54, 61, 66

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4766-4793	A/500 Set BP 4755 w/2 sx
4686-4730	A/500 & 6000
4630-4730	A2500 & F/15,000 gals water & 15,000 # sand.

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)					WELL STATUS (Producing or shut-in)	
		Flowing					SI	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO	
3-27-71	4		→	SEE C-122 ATTACHED				
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)		
		→	0	2 320	0			

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

Awaiting connection

TEST WITNESSED BY

M. E. Penniger

35. LIST OF ATTACHMENTS

Logs Totco

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

SIGNED Tom L. Ingram TITLE Operator

DATE 4-19-71

*(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 Content": 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.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
	0	150	Surface sands & caliche	Yates	2700	
	150	1900	Red beds and sands	San Andres	3912	
	1900	2700	Anhydrite and salt			
	2700	3912	Sand and anhydrite			
	3912	4815	Dolomite			

APR 27 1971
OIL CONSERVATION
BOARD

Form C-122
Revised 9-1-65

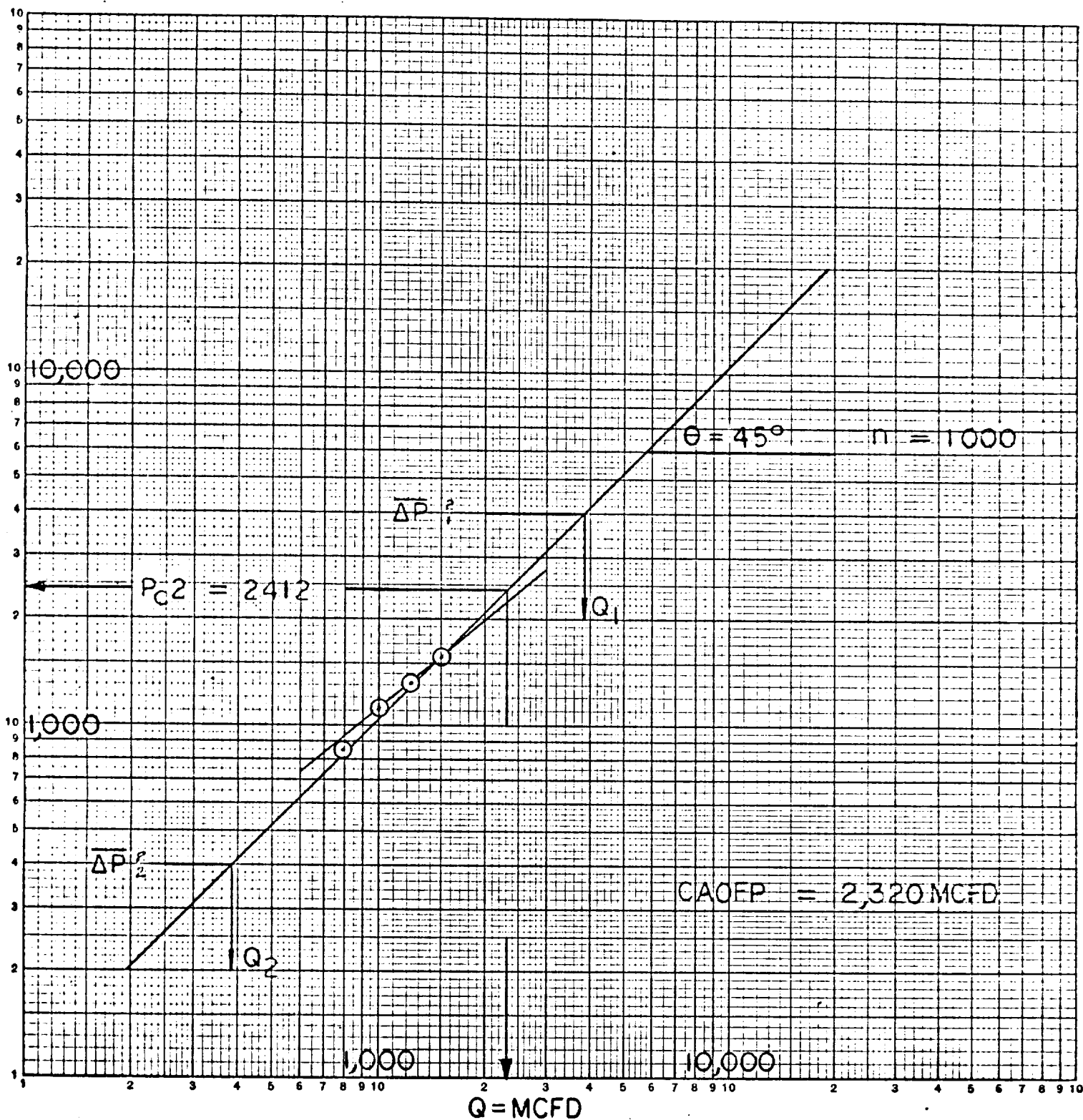
Type Test ☒ Initial ☐ Annual ☐ Special	Test Date 3-27-71										
Company Tom L. Ingram	Connection None										
Pool Wildcat	Formation San Andres										
Completion Date 3-27-71	Total Depth 4815	Plug Back TD 4750	Elevation 4023 KB	Farm or Lease Name Light							
Csg. Size 5 1/2"	Wt. 14#	d 5.012	Set At 4815'	Perforations: From 4630 To 4730	Well No. 1						
Tubg. Size 2 3/8	Wt. 4.7#	d 1.995	Set At 4602	Perforations: From To	Unit Sec. Twp. Rge. 15 8S 37E						
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 4577'	County Roosevelt						
Producing Thru Tubing	Reservoir Temp. °F 110 @ 4680	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2#	State New Mexico							
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps			
FLOW DATA						TUBING DATA		CASING DATA		DURATION OF FLOW	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI	Orifice Well Tester										72
1.	2 x 1 1/4		23" HG			44	1300	58			1
2.	2 x 1 1/4		37" HG			44	1040	68			1
3.	2 x 1 1/4		47" HG			44	935	68	Packer		1
4.	2 x 1 1/4		63" HG			44	855	69			1
5.	2 x 1 1/4		63" HG			44	720	70			1
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd				
1	861			1.0157	.9005		788				
2	1153			1.0157	.9005		1054				
3	1348			1.0157	.9005		1233				
4	1653			1.0157	.9005		1512				
5											
NO.	R _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 152.9 Mcf/bbl.						
1	1.717	504	1.360	.769	A.P.I. Gravity of Liquid Hydrocarbons 37.7 Deg.						
2	1.544	504	1.360	.789	Specific Gravity Separator Gas .740 XXXXXXXXXX						
3	1.414	504	1.361	.805	Specific Gravity Flowing Fluid XXXXXX						
4	1.198	504	1.362	.843	Critical Pressure 668 P.S.I.A. P.S.I.A.						
5					Critical Temperature 404 R R						
P _c 1553 P _c ² 2412					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.5344$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.5344$						
NO.	P _w	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2,320$							
1	1108.8	1249	852								
2	898.7	1135	1224								
3	753.4	1050	1310								
4	537.3	916	1572								
5											
Absolute Open Flow 2,320 Mcfd @ 15.025					Angle of Slope @ 45.0°			Slope, n 1.000			
Remarks:											
Approved By: Commissioner			Conducted By: M. E. Penniger			Calculated By: J. A. Workman			Checked By:		

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APR 20 1971

OIL CONSERVATION DIST. #1
603 N. 1st St.

Tom L. Ingrar
 Light No. 1
 Sec. 15-T8S-R37E
 Roosevelt Co., New Mexico
 March 27, 1971



$$\overline{\Delta P^2} \quad P_{C2} - P_{W2} = 4000$$

$$\overline{\Delta P^2} \quad P_{C2} - P_{W2} = 400$$

$$Q \quad 3850 \text{ MCFD}$$

$$Q \quad 385 \text{ MCFD}$$

$$\text{LOG } Q = 3.58546$$

$$\text{LOG } Q = \underline{2.58546}$$

$$n \quad 1.00000$$

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OIL CONSERVATION COMM.
HOOVER, N. M.

INCLINATION REPORT

TOM L. INGRAM
P. O. Box 1757
Roswell, New Mexico 88240

LIGHT Well No. 1

1980' FSL & 660' FEL,
Section 15, T-8-S, R-37-E,
Roosevelt County, New Mexico

RECORD OF INCLINATION

<u>Depth (feet)</u>	<u>Angle of Inclination (degrees)</u>	<u>Displacement (feet)</u>	<u>Accumulative Displacement (feet)</u>
375	1/4	1.65	1.65
875	1/2	4.35	6.00
1,375	1/2	4.35	10.35
1,875	3/4	6.55	16.90
2,309	3/4	5.69	22.59
2,800	1	8.59	31.18
3,250	1 1/4	9.81	40.99
3,445	1 3/4	5.95	46.94
3,847	2	14.03	60.97
4,328	1 3/4	14.67	75.64
4,492	1 3/4	5.00	80.64
4,630	1 1/2	3.61	84.25
4,815	1	3.23	87.48

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



VERNA DRILLING COMPANY
P. O. Box 1000
Levelland, Texas 79336

Sworn and Subscribed before me, this the 15th day of February, 1971.



Notary Public in and for
Hockley County, Texas

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OIL CONSERVATION COMM.
HOUSTON, TEXAS