

Submit in duplicate to
appropriate district office.
See Rule 401 & Rule 1122

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-122
Revised October, 1999

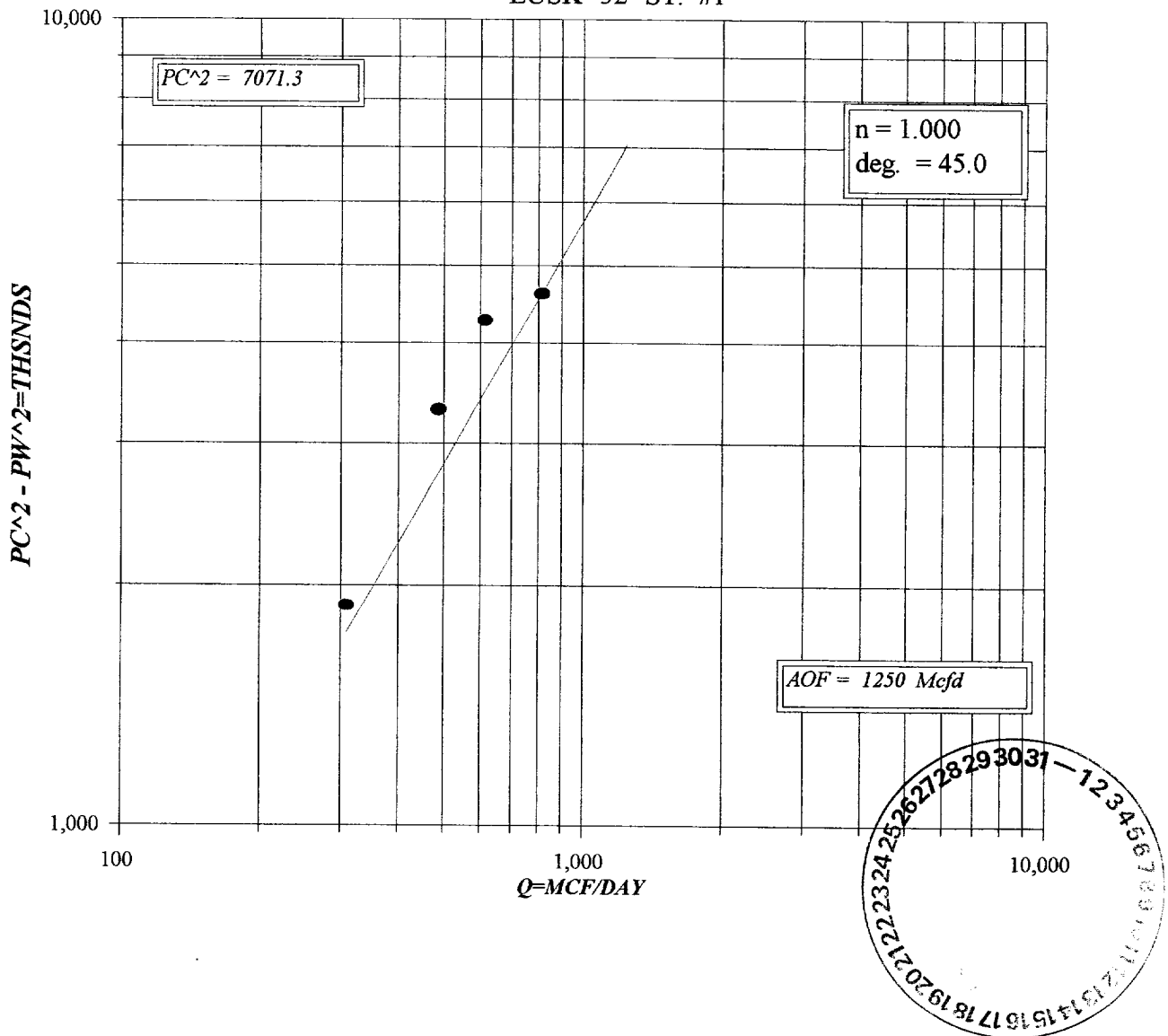
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator KUKUI OPERATING CO.				Lease or Unit Name LUSK "32" ST.			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 2/18/02		Well No. 1	
Completion Date 2/15/02		Total Depth 12930		Plug Back TD 12836		Elevation 3691 GL	
Csg. Size 5 1/2		Wt. 20		d 4.788		Set At 12730	
Tbg. Size 2 7/8		Wt. 6.5		d 2.441		Set At 11554	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 11554		Formation LUSK STRAWN	
Producing Thru Tubing		Reservoir Temp. °F 189.5		Mean Annual Temp. °F 60		Baro. Press. -P _a 13.2	
L 11554		H 11554		Gg 0.757		%CO ₂ 0.205	
				%N ₂ 2.513		%H ₂ S N/A	
				Prover N/A		Meter Run 4.026	
						Taps FLG	
FLOW DATA				TUBING DATA			
Casing Data				Tubing Data			
No.	Prover Line Size	Orifice x Size	Press p.s.i.g.	Diff. h _w	Temp. °F	Press p.s.i.g.	Temp. °F
1	4.026 X 1.375	180	4	63	2263	N/A	PKR
2	4.026 X 1.375	180	10	62	1926		
3	4.026 X 1.375	180	16	62	1656		
4	4.026 X 1.375	180	28	63	1550		
5							
RATE OF FLOW CALCULATIONS							
No.	COEFFICIENT (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress Factor F _{pv}	Rate of Flow Q. Mcfd
1	9.071	27.8	193.2	0.9971	1.149	1.07	309
2	9.071	43.9	193.2	0.9981	1.149	1.07	488
3	9.071	55.6	193.2	0.9981	1.149	1.07	618
4	9.071	73.5	193.2	0.9971	1.149	1.07	817
5							
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 4.895 Mcf bbl.		
1	0.78	523	1.3	0.873	A.P. I. Gravity of Liquid Hydrocarbons 47.3 Deg.		
2	0.78	522	1.3	0.873	Specific Gravity Separator Gas 0.75 XXX		
3	0.78	522	1.3	0.873	Specific Gravity Flowing Fluid 0.75 G MIX= 1.3		
4	0.78	523	1.3	0.873	Critical Pressure 668 P.S.I.A. 651 P.S.I.A.		
5					Critical Temperature 401 R. 530		
P _c 2659.2 P _{c2} 7071.3							
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $P_c^2 = 1.531$ (2) $P_c^2 = 1.531$		
1		2276.5	5182.2	1889.1			
2		1939.9	3763.3	3308.1			
3		1670.5	2790.7	4280.6			
4		1565.7	2451.5	4619.8			
5							
Absolute Open Flow 1250 Mcfd @ 15.025					Angle of Slope (°): 45 Slope n: 1		
Remarks: * WELL MADE 19 BBLS OF 47.3 API GRAVITY CONDENSATE DURING TEST.							
Approved By Division:		Conducted By: PRO WELL TESTING		Calculated By: MERV BUECKER		Checked By: BM	

NOT REQUIRED ON OIL WELLS

ALL INFORMATION ON THIS PAGE IS UNCLASSIFIED

KU KUI OPERATING CO.
LUSK "32" ST. #1



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NEW MEXICO G.O.R./G. MIX

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NO. OF BBLs PRODUCED = 19.0

API GRAVITY @ 60 DEG. = 47.3

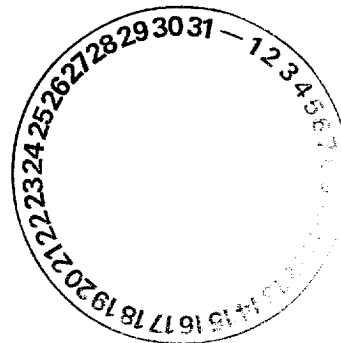
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SPECIFIC GRAVITY OF GAS = 0.7570

XX

TOTAL GAS PRODUCED = 93

G.O.R. = 4.895

G.MIX = 1.313



**Laboratory Services, Inc.**

4016 Fiesta Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Pro Well Testing & Wireline
P. O. Box 791
Hobbs, New Mexico 88241

SAMPLE:
IDENTIFICATION: Lusk 32 St. #1
COMPANY: Kukui Operating
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED: 2/18/02 4:00 pm
ANALYSIS DATE: 2/19/02
PRESSURE - PSIG
SAMPLE TEMP. °F
ATMOS. TEMP. °F

GAS (XX) LIQUID ()
SAMPLED BY: K. P. Wright
ANALYSIS BY: Vickie Biggs

REMARKS: Sample taken @ the separator.

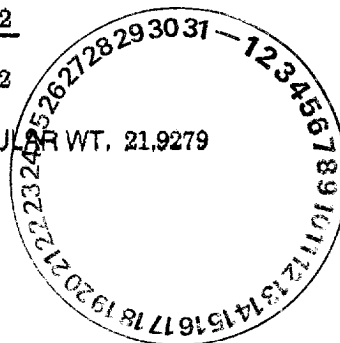
COMPONENT ANALYSIS

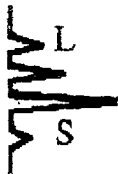
COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	2.513	
Carbon Dioxide (CO2)	0.205	
Methane (C1)	72.516	
Ethane (C2)	14.395	3.841
Propane (C3)	7.176	1.973
I-Butane (IC4)	0.845	0.276
N-Butane (NC4)	1.605	0.505
I-Pentane (IC5)	0.267	0.097
N-Pentane (NC5)	0.244	0.088
Hexane Plus (C6+)	0.284	0.102
	100.000	6.882

BTU/OU.FT. - DRY 1279
AT 14.650 DRY 1275
AT 14.650 WET 1253
AT 14.73 DRY 1282
AT 14.73 WET 1260

SPECIFIC GRAVITY -
CALCULATED 0.757
MEASURED

MOLECULAR WT. 21.9279



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Telephone: (505) 397-3713

ASTM DISTILLATION

Pro Well Testing & Wireline
P. O. Box 791
Hobbs, New Mexico 88241

Sample Date: 2/18/02
Sampled By: B. Pena

Kukul Operating
Lusk 32 St. #1

<u>Percent Distilled</u>	<u>Temperature</u>
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IBP	102
5	125
10	158
20	192
30	240
40	303
50	388
60	495
70	586
80	651
EP	678

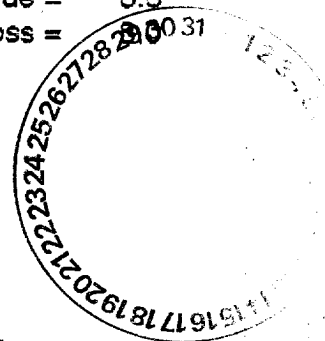
% Recovered = 88.5

% Residue = 3.5

% Loss = 20.31

API Gravity @ 60° F = 47.3

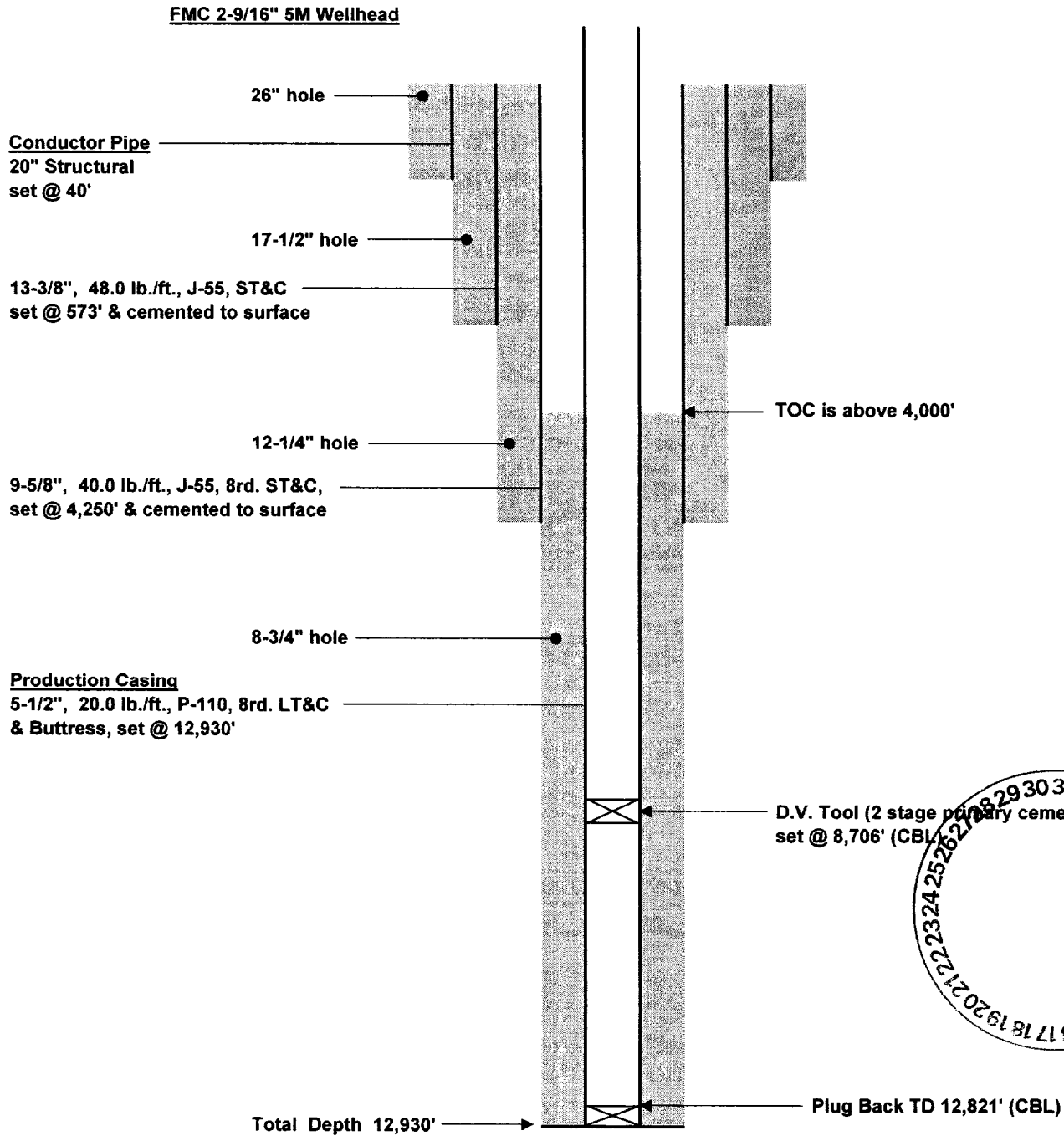
Rolland Perry



KUKUI Operating Company

North Lusk "32" State #1
Unit L, Sec 32, T18S, R32E
Lea County, NM
NM Oil & Gas Lease #VO-6364
API #30-025-35748

Current Wellbore Schematic - 2/20/02



LOCATION

Sec 32, T18S, R2E Lea County, New Mexico

LEASE & WELL

N. Lusk "32" State #1

(Give Unit, Section, Township and Range)

OPERATOR

Kukui Operating Company

DRILLING CONTRACTOR

NABORS DRILLING USA, LP

The Undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above-described well and that he has conducted deviation tests and obtained the following results:

<u>DEGREES @ DEPTH</u>	<u>DEGREES @ DEPTH</u>	<u>DEGREES @ DEPTH</u>	<u>DEGREES @ DEPTH</u>
1/2 255	1 3/4 6581	1 10524	
1/4 527	1 3/4 7079	1 1/4 10830	
1/4 846	1 3/4 7579	1 1/2 11188	
3/4 1187	2 3/4 7828	1 1/4 11498	
1/2 1682	3 8075	3/4 11747	
1/2 2214	2 3/4 8292	1 1/2 12121	
1 2711	2 1/4 8513	3 1/4 12648	
1 2961	2 1/2 8762		
1/2 3461	2 3/4 8950		
1/4 3922	2 3/4 9138		
1/2 4207	2 1/4 9290		
1/2 4550	2 1/4 9530		
3/4 5052	3 1/4 9783		
1 5550	2 3/4 10001		
1 1/2 6080	2 1/4 10276		

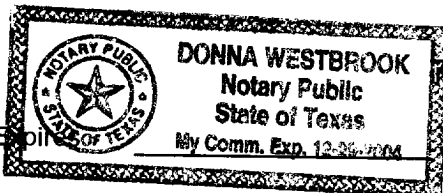
Drilling Contractor

Nabors Drilling USA, LP

By

Brent Sanders-Manager Contracts & Marketing

Subscribed and sworn to before me this 22 day of February, 2002



Notary Public

My Commission Expires

Ector

County

TEXAS

