

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
BEC Corporation

3. Address and Telephone No.
P.O. Box 1392 Midland, Texas 79702 915 682-1828

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NENW (660' FNL & 1980' FWL) Sec. 26 T-14-S R-29-E
Chaves County, New Mexico

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

Lease Designation and Serial No.

NMNM 25480

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Gulf Federal # 1

9. API Well No.

30-005-60738

10. Field and Pool, or Exploratory Area

19100 Double L Queen, Ass

11. County or Parish, State

Chaves, New Mexico

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other _____
- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

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

13. 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.)*

Well Test Report of 7-5-94 By SubSurface Well Testing
P.O. Box 5254
Midland, Texas 79704

See Completed Form C-122 Attached

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

Signed George Van Huse

Title Agent

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

ACCEPTED FOR RECORD
PETER W. CHESTER

7-7-94

JUL 15 1994

BUREAU OF LAND MANAGEMENT
RESOURCE AREA

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

*See Instruction on Reverse Side

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State pursuant to applicable State law and regulations. Any necessary special in-

structions concerning the use of this form and the number of copies to be submitted, particularly with regard to local areas, 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.

SPECIFIC INSTRUCTIONS

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 13—Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et. seq., 351 et. seq., 25 U.S.C. et. seq.; 43 CFR 3160.

PRINCIPAL PURPOSE — The information is to be used to evaluate, when appropriate, approve applications, and report completion of secondary well operations, on a Federal or Indian lease.

ROUTINE USES:

- (1) Evaluate the equipment and procedures used during the proposed or completed subsequent well operations.
 - (2) Request and grant approval to perform those actions covered by 43 CFR 3162.3-2(2).
 - (3) Analyze future applications to drill or modify operations in light of data obtained and methods used.
 - (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.
- EFFECT OF NOT PROVIDING INFORMATION** — Filing of this notice and report and disclosure of the information is mandatory once an oil or gas well is drilled.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501, et. seq.) requires us to inform you that: This information is being collected in order to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases. This information will be used to report subsequent operations once work is completed and when requested, to obtain approval for subsequent operations not previously authorized. Response to this request is mandatory for the specific types of activities specified in 43 CFR Part 3160.

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 25 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management, (Alternate) Bureau Clearance Officer, (WO-771), 18 and C Streets, N.W., Washington, D.C. 20240, and the Office of Management and Budget, Paperwork Reduction Project (1004-0135), Washington, D.C. 20503.

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

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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O. C. D.
ARTESIA, OFFICE

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JUL 25 '94
Form C-122
Revised 4-1-91
BUREAU OF
OIL CONSERVATION
SANTA FE, N.M.

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator B.E.C. Corporation						Lease or Unit Name Gulf Federal					
Type Test ☐ Initial ☐ Annual ☐ Special						Test Date 07/05/94		Well No. 1			
Completion Date		Total Depth		Plug Back TD 1934		Elevation		Unit Ltr. - Sec. - TWP - Rge. Sec. 26 T-14S R-29E			
Csg. Size 5 1/2	Wt. 15#	d	Set At 3510	Perforations: From: 1824 To: 1836		County Chaves					
Tbg. Size 2 3/8	Wt. 4.7	d	Set At 1836	Perforations: From: To:		Pool Queen					
Type Well - Single - Bradenhead - G.G. or G.O. Multiple						Packer Set At		Formation			
Producing Thru 92		Reservoir Temp. °F 60		Mean Annual Temp. °F 13.2		Baro. Press - P _a		Connection			
L 1824	H 1824	Gg .986	% CO ₂ 10.58	% N ₂ 55.56	% H ₂ S	Prover Pos Chokes		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. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI				80		85			80		72
1.			6/64	77		86			77		1
2.			7/64	72		86			72		1
3.			8/64	68		87			68		1
4.			9/64	62		88			62		1
5.											

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)		Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	.1406		90.2	0.9759	1.007	1.005	12.53
2.	.1986		85.2	0.9759	1.007	1.005	16.71
3.	.2618		81.2	0.9750	1.007	1.004	20.96
4.	.3346		75.2	0.9741	1.007	1.004	24.78
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	0.153	546	1.712	0.9901	A.P. I. Gravity of Liquid Hydrocarbons	De
2.	0.145	546	1.712	0.9907	Specific Gravity Separator Gas 0.986	XXXXXXXXXX
3.	0.138	547	1.715	0.9912	Specific Gravity Flowing Fluid	XXXXXX
4.	0.128	548	1.718	0.9919	Critical Pressure 588 P.S.I.A.	P.S.I.
5.					Critical Temperature 319 R	

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1.		96.1	9.227	0.934
2.		91.4	8.346	1.815
3.		86.7	7.510	2.651
4.		80.1	6.413	3.748
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.711$

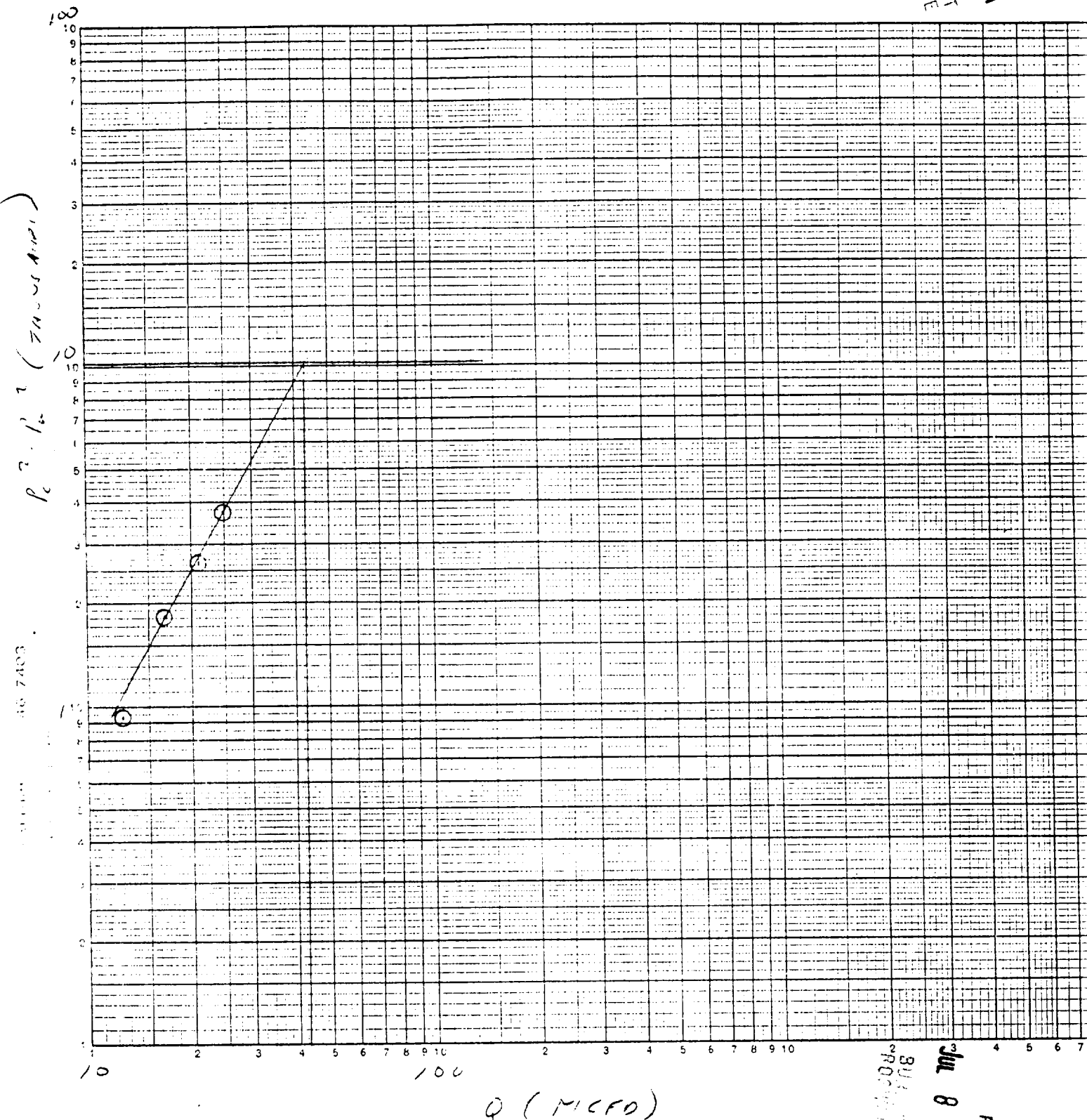
2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.729$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 42.84$

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Absolute Open Flow 42.84 Mcfd @ 15.025		Angle of Slope θ 61.2 °		Signature 549
Remarks:				
Approved By Division		Conducted By:		Calculated By:
				Checked By:

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BUREAU OF LAND MANAGEMENT
ROSTK AND SCHMIDT



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WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURES (P_c or P_w)
FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_s)

Form C-122F
Adopted 9-1-65

COMPANY JOE M. E. CO. LEASE GULF FEDERAL WELL NO. 1 DATE 7/5/94

LOCATION: Unit 1025 Section 1 Township 0.986 Range 10.58 55.56 7.5
L 1824 H 1824 L/H 1 G 0.986 % CO₂ 10.58 % N₂ 55.56 % H₂S 7.5

GH 1798 P_{cr} 588 T_{cr} 319
TABLE IX & X TABLE IX & X

LINE		1	2	3	4	5	6	7	8
1	T_w (W.H. °R)	545							
2	T_s (B.H. °R)	552							
3	$T = (\frac{T_w + T_s}{2})$	548.5							
4	Z (Est.)	0.98	0.989						
5	TZ	537.5	542.5						
6	GH/TZ	3.345	3.314						
7	e^S (Table XIV)	1.134	1.132						
8	P_f or P_s	107.2	107.2						
9	P_f^2 or P_s^2	11.492	11.492						
10	$P_c^2 = P_f^2 / e^S$ or $P_w^2 = P_s^2 / e^S$	10.134	10.152						
11	P_c or P_w	100.7	100.8						
12	$P = (\frac{P_w + P_s}{2})$ or $(\frac{P_c + P_f}{2})$	104.0	104.0						
13	$P_r = (P/P_{cr})$	0.177	0.177						
14	$T_r = (T/T_{cr})$	1.719	1.717						
15	Z (Table XI)	0.989	0.989						

WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURES (P_c or P_w)

Form C-122F
Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_s)

COMPANY B. E. C. Co. LEASE Gulf Federal WELL NO. 1 DATE 7/5/94

LOCATION: Unit Section Township Range

L 1824 H 1824 L/H 1 G 0906 % CO₂ 10.58 % N₂ 55.56 % H₂S

GH 1790 P_{CT} 538 T_{CT} 319

LINE		Flow 1			Flow 2			Flow 3			Flow 4		
		1	2	3	4	5	6	7	8				
1	T_w (W.H. °R)	546		546		547		548					
2	T_s (B.H. °R)	552		552		552		552					
3	$T = (\frac{T_w + T_s}{2})$	549		549		549.5		550					
4	Z (Est.)	0.99	0.989	0.99		0.99		0.99					
5	TZ	543.5	543.0	543.5		544.0		544.5					
6	GH/TZ	3.308	3.311	3.308		3.305		3.302					
7	e^S (Table XIV)	1.132	1.132	1.132		1.132		1.132					
8	P_f or P_s	102.2	102.2	97.2		92.2		85.2					
9	P_f^2 or P_s^2	10445	10445	9448		8501		7259					
10	$P_c^2 = P_f^2 / e^S$ or $P_w^2 = P_s^2 / e^S$	9227	9227	8346		7510		6413					
11	P_c or P_w	96.1	96.1	91.4		86.7		80.1					
12	$P = (\frac{P_w + P_s}{2})$ or $(\frac{P_c + P_f}{2})$	99.2	99.2	94.3		89.5		82.2					
13	$P_r = (P / P_{CT})$	0.169	0.169	0.160		0.152		0.141					
14	$T_r = (T / T_{CT})$	1.721	1.721	1.721		1.723		1.724					
15	Z (Table XI)	0.989	0.989	0.990		0.990		0.991					

"Quality Testing of Oil & Gas Wells"

P. O. BOX 5254
MIDLAND, TEXAS 79704



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PHONE 815/682-7580
BUREAU OF LAND MANAGEMENT
ROSWELL, NEW MEXICO

STATIC FLOWING — B. H. PRESSURES

COMPANY BEC Corporation Well & No. Gulf Federal #1
FIELD _____ Date 07/05/94 Instrument No. 10692

DATE	STATUS	SERVICE TIME	ELAPSED TIME		D W T		DWT	BHP PSIG @
			HRS.	MIN.	TP	CP	1830'	
07/05/94	In Lubricator	15:15			19	80	94	
	On Bottom	15:30			19	80	94	
	Opened on a 6/64" ck.	15:45	00:00		19	80	94	
	1st rate cont.	16:00	00:15		19	79	92	
	1st rate cont.	16:15	00:30		19	78	91	
	1st rate cont.	16:30	00:45		19	78	90	
	1st rate ended	16:45	01:00		19	77	89	
	Opened on a 7/64" ck.	16:45	00:00		19	77	89	
	2nd rate cont.	17:00	00:15		20	76	87	
	2nd rate cont.	17:15	00:30		20	75	86	
	2nd rate cont.	17:30	00:45		20	73	84	
	2nd rate ended	17:45	01:00		20	72	84	
	Opened on an 8/64" ck.	17:45	00:00		20	72	84	
	3rd rate cont.	18:00	00:15		21	71	82	
	3rd rate cont.	18:15	00:30		21	70	81	
	3rd rate cont.	18:30	00:45		21	69	80	
	3rd rate cont.	18:45	01:00		22	68	79	
	Opened on a 9/64" ck.	18:45	00:00		22	68	79	
	4th rate cont.	19:00	00:15		22	66	77	
4th rate cont.	19:15	00:30		22	65	75		
4th rate cont.	19:30	00:45		23	63	73		
4th rate ended	19:45	01:00		23	62	72		

THE ABOVE PRESSURES ARE PSIG.

"Quality Testing of Oil & Gas Wells"

P.O. BOX 5254
MIDLAND, TEXAS 79704

PHONE
915/682-7580

BOTTOM HOLE PRESSURE REPORT

Operator B.E.C. Corporation Lease Gulf Federal Well 1
Field _____ Reservoir _____
Test Date 07/05/94 Well Status Static Hrs Shut In _____
Tubing 2 3/8 Depth 1836 End open _____ Packer _____ S. N. _____
Casing 5 1/2 Depth 3510 Perf 1824 - 1836 Total Depth _____

Depth (feet)	Pressure (psig)	Delta Pressure	Gradient (psi/ft)
-----------------	--------------------	-------------------	----------------------

Tubing Pres.	<u>22</u>	0	22		
Casing Pres.	<u>80</u>	1630	31	9	0.006
Top of Fluid	<u>None</u>	1730	46	15	0.150
Top of Water	<u>1699</u>	1830	94	48	0.480
Temp. @	_____				
Degrees F.	_____	1830	94	Ctr. of Perfs.	0.480
Elev. KB	_____				
Elev GL	_____				
Datum	_____				
Last Test Date	<u>/ /</u>				
Press. Last Test	_____				
Pres. Change	_____				
Change per Day	_____				
Inst. No.	<u>10692</u>				
Calibration	<u>060793</u>				
Tested By	<u>Ralph</u>				
Calculated By	<u>Ralph</u>				

Remarks--

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ROSWELL, NEW MEXICO

"Quality Testing of Oil & Gas Wells"

P. O. BOX 5254
MIDLAND, TEXAS 79704

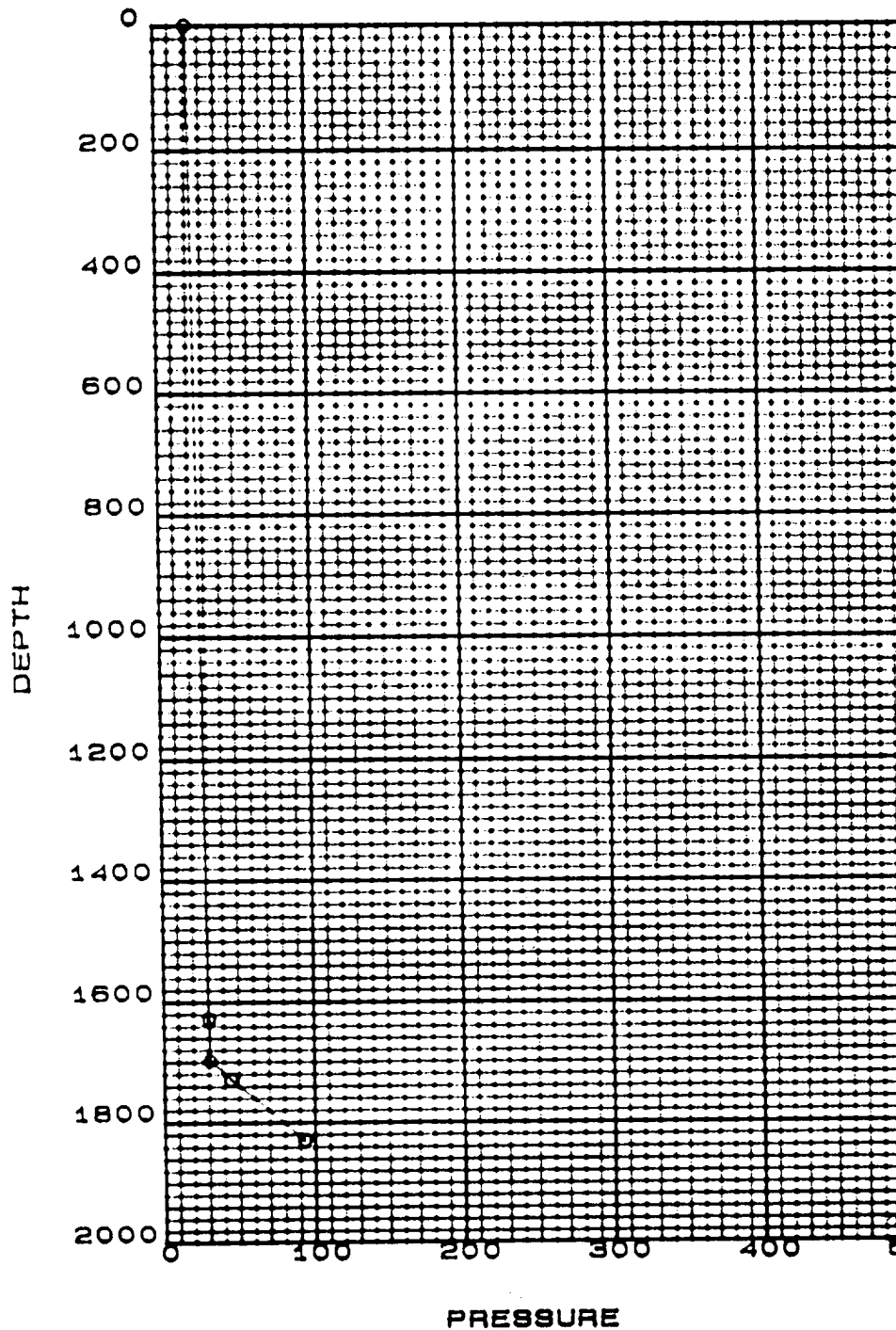


PHONE
915/682-7580

BOTTOM HOLE PRESSURE PLOT

Operator: B.E.C. Corporation
Lease: Gulf Federal
Well No.: 1

Test Date: 07/05/94
Status: Static



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BUREAU OF LAND MANAGEMENT
U.S. DEPARTMENT OF THE INTERIOR
WASH. D.C. 20240