

DUPPLICATE

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OCT - 4 1950

# CONTINENTAL OIL COMPANY

Hebbs, New Mexico  
October 2, 1950

New Mexico Oil Conservation Commission  
P. O. Box 871  
Santa Fe, New Mexico

Dear Sirs:

As ordered in Case No. 217, Order No. 28, dated July 28, 1950, the applicant, Continental Oil Company, submits the following report of operations conducted to effect a dual completion of the E. J. Wells B-1 No. 1, Cooper-Jal Pool, Lea County, New Mexico, as an oil-gas well in the Seven Rivers and Yates formations:

1. The Seven Rivers formation was perforated from 3522' to 3536' and these perforations were acidized with 500 and 1,000 gallons acid in two stages. This zone flowed 140 barrels oil and 14 barrels water in 24 hours through a 20/64" choke on 3" tubing with 289.3 MCF gas per day for a gas-oil ratio of 2,066 cubic feet per barrel. The tubing pressure was 490 psi and the casing pressure was 1,050 psi. The bottom-hole pressure at 3510' in the Seven Rivers zone is 1,036 psi as ascertained by an Amerada pressure bomb. A plot of the pressure survey is attached.

2. A Baker model "B" retainer production packer with tubing seal was set in the 7" casing at 3507'. A cross section of the packer is attached.

1950

CONTINENTAL  
OIL COMPANY

Rooms, Mex Mexico  
October 5, 1950

Continental Oil Company  
1000 Wilshire Boulevard  
Santa Fe, New Mexico

Dear Sirs:

As you may know, we have been engaged in negotiations with  
you concerning our participation in the construction of a  
new refinery at Laredo, Texas. We have been advised by our  
attorneys that a final agreement will be reached within  
the next few days. It is anticipated that the new refinery  
will be completed in approximately three months from the  
date of the signing of the contract. The cost of the project  
is estimated at \$10,000,000. The new refinery will be located  
on land owned by the City of Laredo, Texas, and will consist  
of a number of buildings including a large storage tank,  
a pump house, a power plant, and various auxiliary structures.  
The new refinery will be equipped with all modern facilities  
and will be capable of producing a large quantity of  
petroleum products. The new refinery will be located in  
the heart of the oil fields of South Texas, and will be  
conveniently situated for the transportation of crude  
oil and refined products. The new refinery will be  
operated by a highly qualified staff of engineers and  
technicians, and will be under the supervision of a  
qualified manager. The new refinery will be a  
major contribution to the economic development of the  
area, and will provide employment for many people.  
We would like to thank you for your consideration  
of our proposal, and we hope that you will accept it.  
Very truly yours,  
John D. Rockefeller, Jr.

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CONSERVATION COMMISSION  
HOBS-OFFICE

3. The casing was then perforated opposite the Yates formation in the following intervals: 2910-2924', 2924-2930', 2930-2936', 2936-2942', 2942-2948', 2948-2954', 2954-2960', 2960-2966', 2966-2972', 2972-2976', 2976-2982', 2982-2986', 2986-2992', 2992-2996', 2996-3000', 3000-3004', 3004-3008', 3008-3012', 3012-3016', 3016-3020', 3020-3024', 3024-3028', 3028-3032', 3032-3036', 3036-3040', 3040-3044', 3044-3048', 3048-3052', 3052-3056', 3056-3060', 3060-3064', 3064-3068', 3068-3072', 3072-3076', 3076-3080', 3080-3084', 3084-3088', 3088-3092', 3092-3096', 3096-3100', 3100-3104', 3104-3108', 3108-3112', 3112-3116', 3116-3120', 3120-3124', 3124-3128', 3128-3132', 3132-3136', 3136-3140', 3140-3144', 3144-3148', 3148-3152', 3152-3156', 3156-3160', 3160-3164', 3164-3168', 3168-3172', 3172-3176', 3176-3180', 3180-3184', 3184-3188', 3188-3192', 3192-3196', 3196-3200', 3200-3204', 3204-3208', 3208-3212', 3212-3216', 3216-3220', 3220-3224', 3224-3228', 3228-3232', 3232-3236', 3236-3240', 3240-3244', 3244-3248', 3248-3252', 3252-3256', 3256-3260', 3260-3264', 3264-3268', 3268-3272', 3272-3276', 3276-3280', 3280-3284', 3284-3288', 3288-3292', 3292-3296', 3296-3300', 3300-3304', 3304-3308', 3308-3312', 3312-3316', 3316-3320', 3320-3324', 3324-3328', 3328-3332', 3332-3336', 3336-3340', 3340-3344', 3344-3348', 3348-3352', 3352-3356', 3356-3360', 3360-3364', 3364-3368', 3368-3372', 3372-3376', 3376-3380', 3380-3384', 3384-3388', 3388-3392', 3392-3396', 3396-3400', 3400-3404', 3404-3408', 3408-3412', 3412-3416', 3416-3420', 3420-3424', 3424-3428', 3428-3432', 3432-3436', 3436-3440', 3440-3444', 3444-3448', 3448-3452', 3452-3456', 3456-3460', 3460-3464', 3464-3468', 3468-3472', 3472-3476', 3476-3480', 3480-3484', 3484-3488', 3488-3492', 3492-3496', 3496-3500'. The 3" tubing was run with a side-door choke set above the packer and 2" tubing set through the packer to a total depth of 3510'. These perforations were then tested through the annulus and flowed at the rate of 550.3 MCF gas per day. The blank in the side-door choke was pulled to permit acidization of the Yates perforations with 500 gallons acid. The blank was then rerun in the side-door choke to blank-off the annulus and the oil productive Seven Rivers kicked off. A back-pressure test was taken of the Yates section which tested at the rate of 1,600 MCF gas per day after acidization with a shut-in pressure of 911.2 psi absolute. The calculated bottom-hole pressure at the bottom of the lowest perforations (2924') opposite the Yates formation is 985.2 psi absolute. A report of the back-pressure test is attached.

The data presented above and attached hereto is in evidence that the E. J. Wells B-1 No. 1 has been dually completed as an oil-gas well in the Seven Rivers and Yates formations in such a manner that there will be no co-mingling within the well bore of the hydrocarbons produced from the two separate reservoirs.

Yours truly,

*E. L. Shafer*

E. L. SHAVER  
Supt., New Mexico District  
West Texas-New Mexico Division  
Production Department

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Q301 4 - 100

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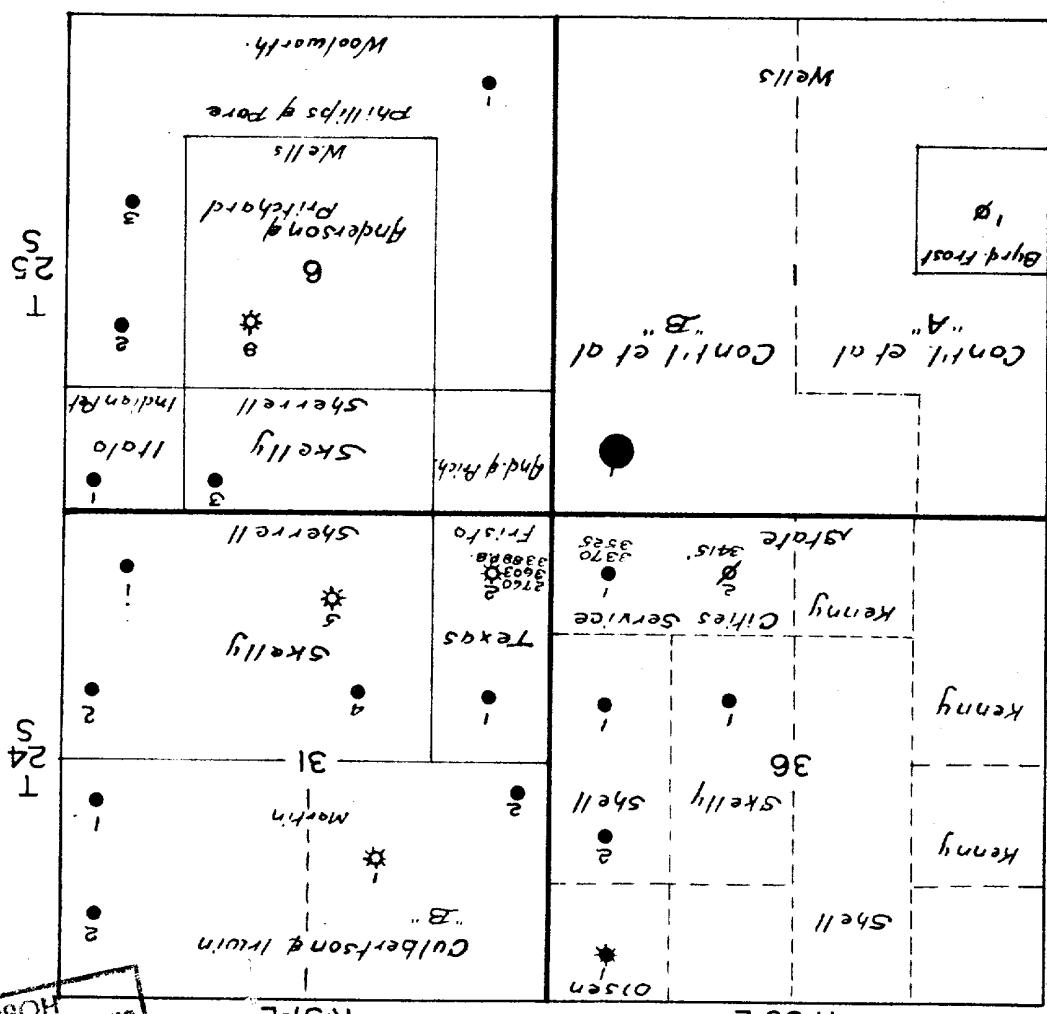
OCT - 4 1950

N.M. DIST. OFFICE

SCALE: 1 INCH = 2000 FT.

CONTINENTAL OIL CO. ET AL.  
WELLS B-1 NO.1  
AND  
OFFSET WELLS

MARCH 28, 1950



OCT - 4 1950  
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OIL CONSERVATION COMMISSION  
HOBBES-OFFICE

CONTINENTAL OIL CO.  
WELLS B-1 NO.1

ELEV: 3252'

2700

2800 TOP OF YATES

2900

3000 TOP OF 7-RIVERS

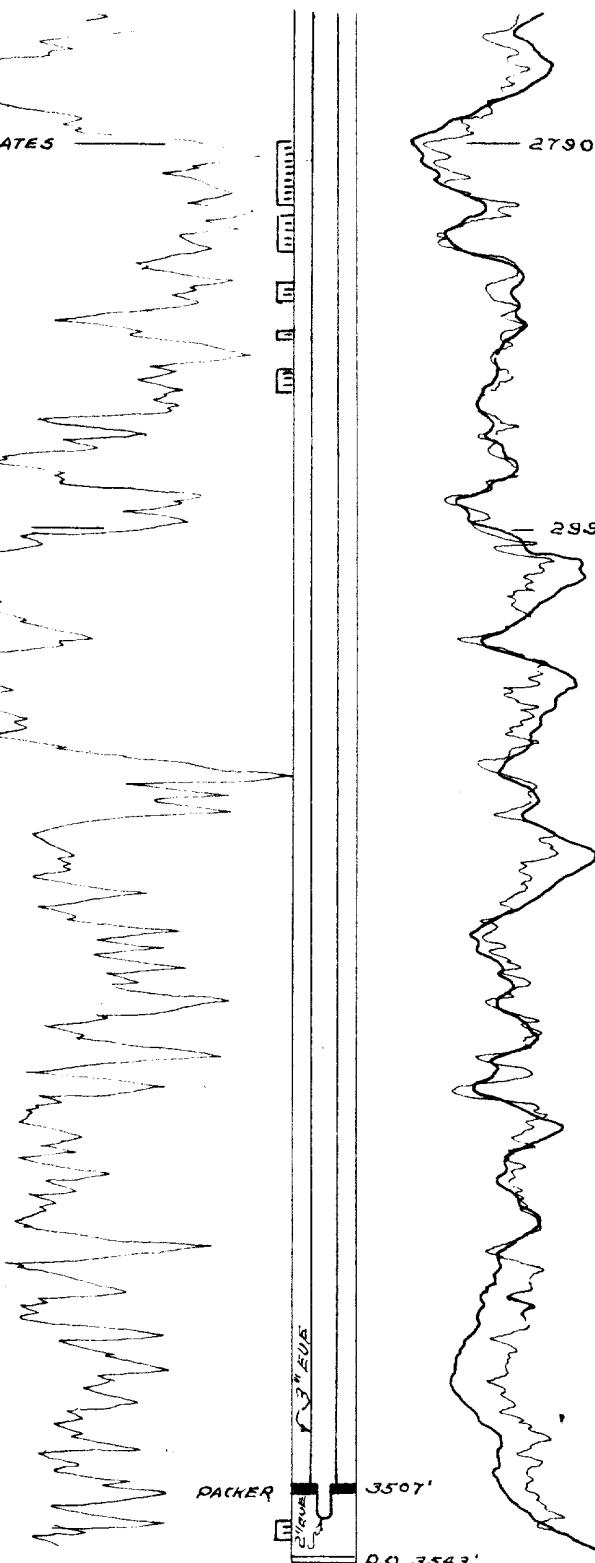
3100

3200

3300

3400

3500



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OCT - 4 1950  
OIL CONSERVATION COMMISSION  
HOBBS-OFFICE

Perforated csg 3522 36' with 4 shots/ft. Swabbed dry. Acidized w/ 500 gals. Swabbed dry. Re-acidized w/ 1000 gals. Flowed 190 BO/10 hrs, thru 3/4" choke with GOR 414. T.P. 50#. C.P. 375#.

Set production packer @ 3507' and perforated:

2790 - 2822'

2830 - 2850'

2866 - 2876'

2891 - 2896'

2910 - 2924'

Flowed thru annulus 580.3 MCF gas per day, no fluid, on 2-hour test. Acidized with 500 gals. Flowed 649.4 MCF per day, no fluid, on 3-hr. test.

Pulled orifice & side-door choke. Reran blank. Completed for I.P. of 140 BO and 14 BW in 24 hours, flowing thru 20/64" choke, on 3" tubing, with 269.3 MCF gas, GOR 2066. T.P. 490#. C.P. 1050#.

Dually completed as gas well for I.P. of 1600 MCF gas in 24 hrs based on 8-hr test. Shut-in BHP = 985.2 p.s.i. Hds.

OCT - 4 1950

## SUBSURFACE PRESSURE SURVEY

CONTINENTAL OIL COMPANY

E. J. Well 1-1

County Lea

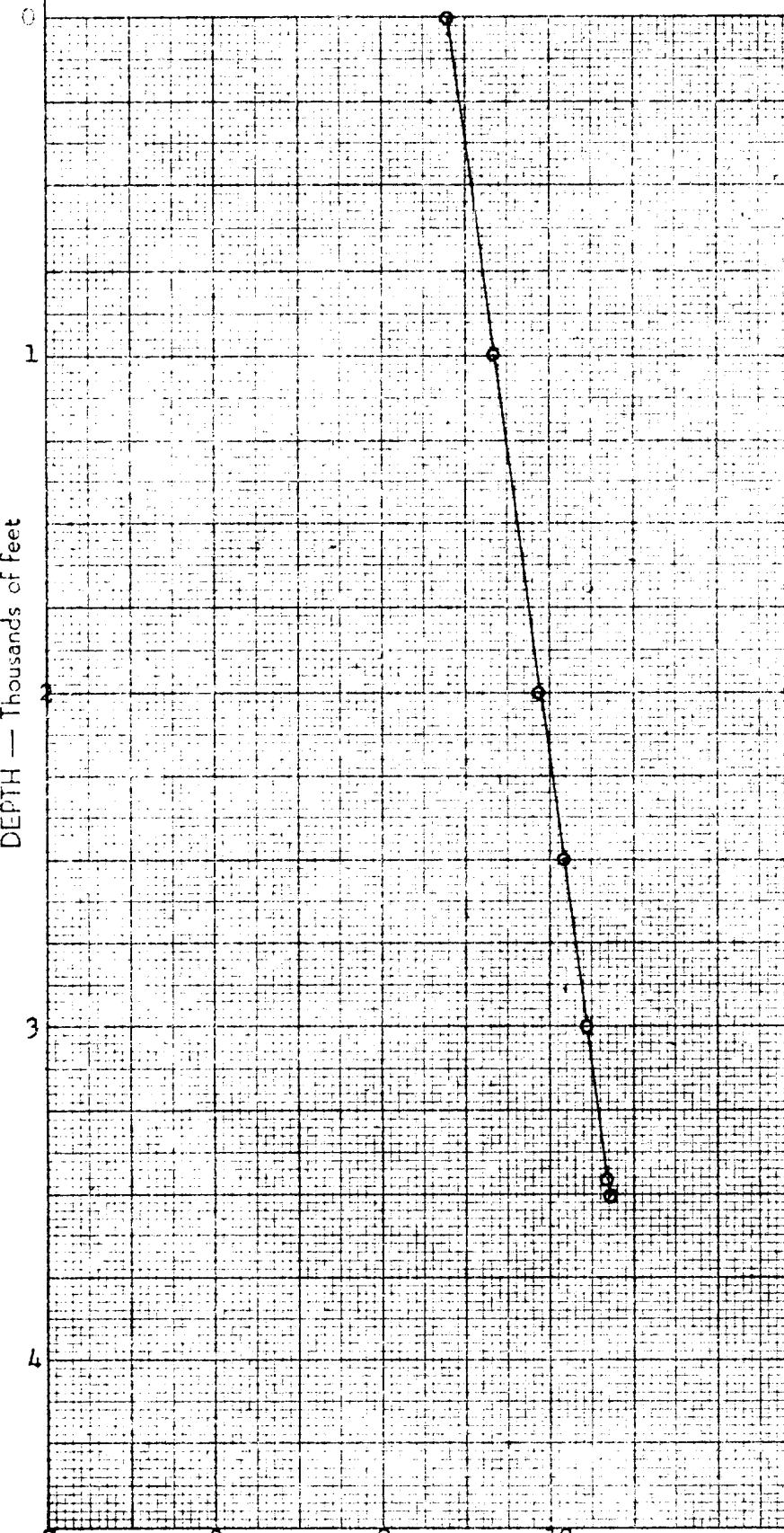
Field Cooper-Jal

State New Mexico

Zone Seven Rivers

Elev., ft. 3252

Well No. 1



PRODUCTION &amp; DRILLING DEPT.

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Total plug

Depth, Ft. 3542

Zone Open, Ft. 3522 to 3536

OCT - 4 1950

to

OIL CONSERVATION COMMISSION

Net Effective Pay, Est. AHOBBS-OFFICE

Oil String 7 " 29 # @ 3544 ft.

Tubing 3 1/2" 9.3 # @ 3510 ft.

Tubing " " # @ ft.

Shut In 26 Hr. Oil Gr. °API

Oil, Net b/d Water b/d

Total Gas M/d Net M/d

Trap Press, # /□"ga. High Low ( °F)

Depth	Pressure	Temp.	Remarks
0	940	T	CP lb./sq. in.
1000	967		
2000	994		
2500	1009		
3000	1032		
3252	1034		
3510	1036		

Fluid Level ft. Gas Ave. Grad. # /□" /ft. .027

Date of Run 9-19-50 Start 10:00 : 10:30 AM

ATT - 11 1950

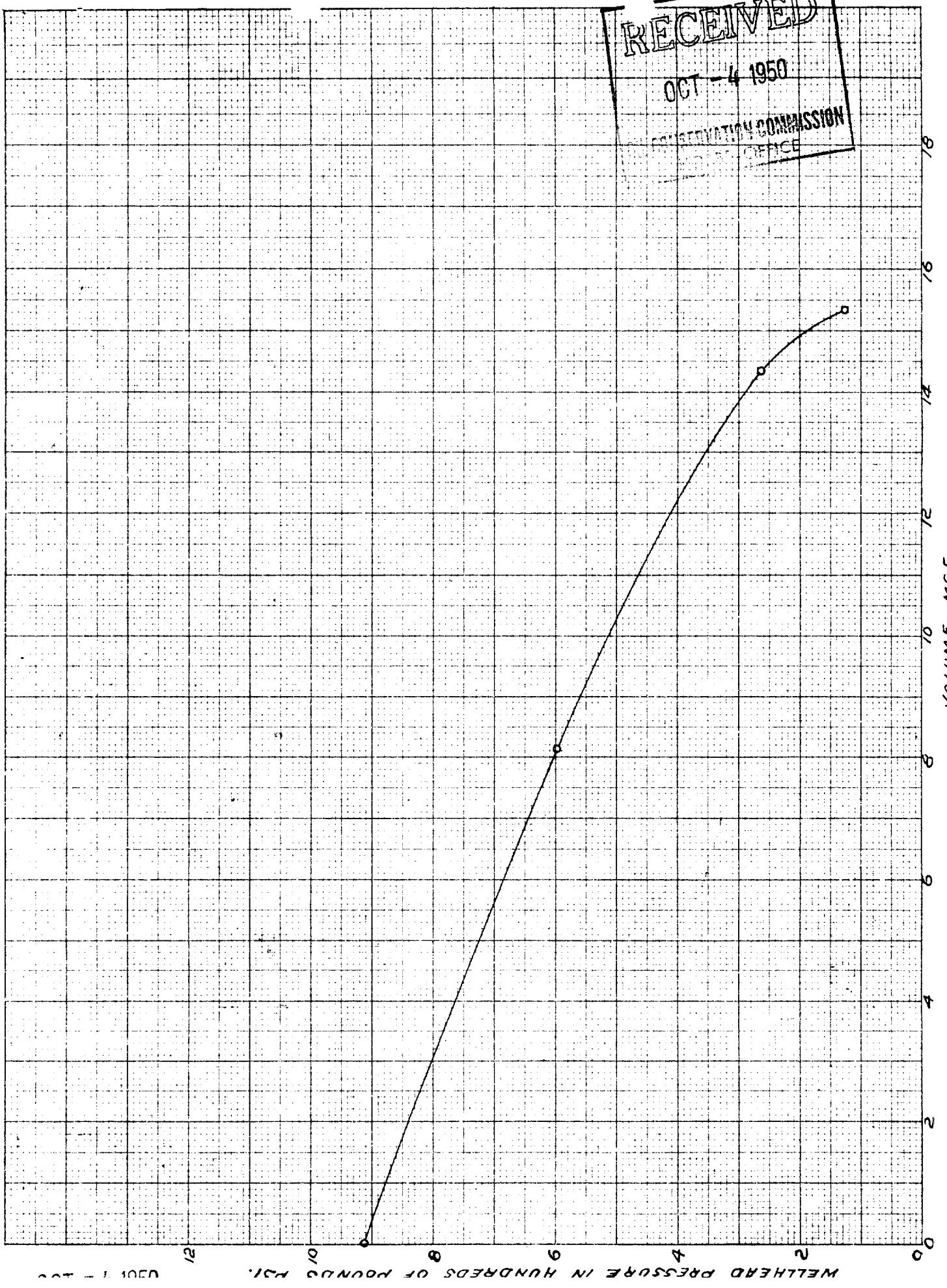
PRESSURE — Hundreds of lb./sq. in. ga.

Date: 9-19-50

By: L.T.P.



WELLS B-I NO. 1  
DELIVERABILITY CURVE



WELLS B-J NO. 1

CALCULATED OPEN FLOW POTENTIAL

OCT - 4 1950

(-5442 - 5445)

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REGULATION COMMISSION  
DOBBS OFFICE

1000000

VOLUME - MCF

1000000

10,000

Open flow  
1000000 Oct

CONTINENTAL OIL COMPANY  
BACK-PRESSURE TEST DATA  
WELLS B-1 NO. 1

<u>Volume</u> <u>(Calculated MOP)</u>	<u>B.H.P.</u> <u>(Calculated PSI ABS)</u>	<u>B.H.P. <sup>2</sup></u>	<u>(BHP <sup>2</sup> - BHP <sup>2</sup>)</u>	<u>Surface Press.</u> <u>(PSI ABS)</u>
0	970,619.04	-	911.2	
811.2	418,867.84	551,751.2	598.2	
263.2	80,202.24	890,416.8	261.2	
135.2	18,279.04	952,540.0	125.2	

Note: Volumes corrected for specific gravity and atmospheric pressure.

Date Tested: September 8, 1950

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REGULATORY COMMISSION  
OF CALIFORNIA

OCT - 4 1950

TRADE AND INDUSTRIAL DEPARTMENT  
GOVERNMENT OF INDIA  
SAC - DURGADHAR MALLIK  
I.C.I. LTD.

Customer Name	Address	Date of Issue	Serial No.
S.H.D.	(BHD)	1971-10-01	1
S.H.D.	(BHD)	1971-10-01	2
S.H.D.	(BHD)	1971-10-01	3
S.H.D.	(BHD)	1971-10-01	4
S.H.D.	(BHD)	1971-10-01	5
S.H.D.	(BHD)	1971-10-01	6
S.H.D.	(BHD)	1971-10-01	7
S.H.D.	(BHD)	1971-10-01	8
S.H.D.	(BHD)	1971-10-01	9
S.H.D.	(BHD)	1971-10-01	10
S.H.D.	(BHD)	1971-10-01	11
S.H.D.	(BHD)	1971-10-01	12
S.H.D.	(BHD)	1971-10-01	13
S.H.D.	(BHD)	1971-10-01	14
S.H.D.	(BHD)	1971-10-01	15
S.H.D.	(BHD)	1971-10-01	16
S.H.D.	(BHD)	1971-10-01	17
S.H.D.	(BHD)	1971-10-01	18
S.H.D.	(BHD)	1971-10-01	19
S.H.D.	(BHD)	1971-10-01	20
S.H.D.	(BHD)	1971-10-01	21
S.H.D.	(BHD)	1971-10-01	22
S.H.D.	(BHD)	1971-10-01	23
S.H.D.	(BHD)	1971-10-01	24
S.H.D.	(BHD)	1971-10-01	25
S.H.D.	(BHD)	1971-10-01	26
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S.H.D.	(BHD)	1971-10-01	31
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S.H.D.	(BHD)	1971-10-01	41
S.H.D.	(BHD)	1971-10-01	42
S.H.D.	(BHD)	1971-10-01	43
S.H.D.	(BHD)	1971-10-01	44
S.H.D.	(BHD)	1971-10-01	45
S.H.D.	(BHD)	1971-10-01	46
S.H.D.	(BHD)	1971-10-01	47
S.H.D.	(BHD)	1971-10-01	48
S.H.D.	(BHD)	1971-10-01	49
S.H.D.	(BHD)	1971-10-01	50
S.H.D.	(BHD)	1971-10-01	51
S.H.D.	(BHD)	1971-10-01	52
S.H.D.	(BHD)	1971-10-01	53
S.H.D.	(BHD)	1971-10-01	54
S.H.D.	(BHD)	1971-10-01	55
S.H.D.	(BHD)	1971-10-01	56
S.H.D.	(BHD)	1971-10-01	57
S.H.D.	(BHD)	1971-10-01	58
S.H.D.	(BHD)	1971-10-01	59
S.H.D.	(BHD)	1971-10-01	60
S.H.D.	(BHD)	1971-10-01	61
S.H.D.	(BHD)	1971-10-01	62
S.H.D.	(BHD)	1971-10-01	63
S.H.D.	(BHD)	1971-10-01	64
S.H.D.	(BHD)	1971-10-01	65
S.H.D.	(BHD)	1971-10-01	66
S.H.D.	(BHD)	1971-10-01	67
S.H.D.	(BHD)	1971-10-01	68
S.H.D.	(BHD)	1971-10-01	69
S.H.D.	(BHD)	1971-10-01	70
S.H.D.	(BHD)	1971-10-01	71
S.H.D.	(BHD)	1971-10-01	72
S.H.D.	(BHD)	1971-10-01	73
S.H.D.	(BHD)	1971-10-01	74
S.H.D.	(BHD)	1971-10-01	75
S.H.D.	(BHD)	1971-10-01	76
S.H.D.	(BHD)	1971-10-01	77
S.H.D.	(BHD)	1971-10-01	78
S.H.D.	(BHD)	1971-10-01	79
S.H.D.	(BHD)	1971-10-01	80
S.H.D.	(BHD)	1971-10-01	81
S.H.D.	(BHD)	1971-10-01	82
S.H.D.	(BHD)	1971-10-01	83
S.H.D.	(BHD)	1971-10-01	84
S.H.D.	(BHD)	1971-10-01	85
S.H.D.	(BHD)	1971-10-01	86
S.H.D.	(BHD)	1971-10-01	87
S.H.D.	(BHD)	1971-10-01	88
S.H.D.	(BHD)	1971-10-01	89
S.H.D.	(BHD)	1971-10-01	90
S.H.D.	(BHD)	1971-10-01	91
S.H.D.	(BHD)	1971-10-01	92
S.H.D.	(BHD)	1971-10-01	93
S.H.D.	(BHD)	1971-10-01	94
S.H.D.	(BHD)	1971-10-01	95
S.H.D.	(BHD)	1971-10-01	96
S.H.D.	(BHD)	1971-10-01	97
S.H.D.	(BHD)	1971-10-01	98
S.H.D.	(BHD)	1971-10-01	99
S.H.D.	(BHD)	1971-10-01	100

Note : Major items of project to be delivered by 30th June 1972.  
Last date of payment 30th September 1972.