(Form C-102)
(Revised 7/1/52)

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

HOBBS OFFICE OCC

1957 MAR 15 AM 9:55

MISCELLANEOUS NOTICES

Submit this notice in TRIPLICATE to the District Office, Oil Conservation Commission, before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate Nature of Notice by Checking Below

Notice of Intention to Change Plans		Notice of Intention to Temporarily Abandon Well		Notice of Intention to Drill Deeper	
Notice of Intention to Plug Well		Notice of Intention to Plug Back		Notice of Intention to Set Liner	
Notice of Intention to Squeeze		Notice of Intention to Acidize		Notice of Intention to Shoot (Nitro)	
Notice of Intention to Gun Perforate		Notice of Intention (Other)		Notice of Intention (Other) Sandfrac	X

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Hobbs, New Mexico (Place) March 13, 1957 (Date)

Gentlemen:

Following is a Notice of Intention to do certain work as described below at the State H

Shell Oil Company (Company or Operator) Well No. 4 in I (Unit)

NE ¼ SE ¼ (40-acre Subdivision) of Sec. 13, T. 21-S, R. 35-E, NMPM., Eumont Pool

Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK
(FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS)

We propose to blank off oil zone by setting C.I. bridge plug capped w/cement @ 3590' and fracture treat the Yates gas zone in the gross perforated interval 3320' - 3542' w/30,000 gallons of gelled lease crude containing 1½#/gal. sand in order to stimulate gas production.

Approved ....., 19.....
Except as follows:

Approved
OIL CONSERVATION COMMISSION

By E. J. Kirkham

Title .....

Shell Oil Company
Company or Operator

By Original signed by B. Nevill

Position Division Exploitation Engineer

Send Communications regarding well to:

Name Shell Oil Company

Address P. O. Box 1957 Hobbs, New Mexico

Form C-103
(Revised 3-55)

NEW MEXICO OIL CONSERVATION COMMISSION
MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

COMPANY Shell Oil Company Box 1957, Hobbs, New Mexico
(Address)

LEASE State H WELL NO. 4 UNIT I S 13 T -21-S R -35-E

DATE WORK PERFORMED 1-1-57 POOL Eumont

This is a Report of: (Check appropriate block)

- [ ] Beginning Drilling Operations
- [ ] Plugging
- [ ] Results of Test of Casing Shut-off
- [ ] Remedial Work
- [X] Other Temporarily Abandon

Detailed account of work done, nature and quantity of materials used and results obtained.

The flow line has been disconnected and a high pressure valve installed on the tubing. This form is being filed in accordance with NMOCC letter dated June 3, 1955. Abandon oil zone only.

THE COMMISSION MUST BE NOTIFIED EVERY 6 MONTHS ON FORM C-103 AS TO THE WELL STATUS AND YOUR FUTURE PLANS FOR THIS WELL.

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____

Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____

Perf Interval (s) _____

Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:	BEFORE	AFTER
Date of Test		
Oil Production, bbls. per day		
Gas Production, Mcf per day		
Water Production, bbls. per day		
Gas-Oil Ratio, cu. ft. per bbl.		
Gas Well Potential, Mcf per day		

Witnessed by _____ _____ (Company)

OIL CONSERVATION COMMISSION

Name E. Fischer
Title Engineer District II
Date _____

I hereby certify that the information given above is true and complete to the best of my knowledge.

Name B. Nevill Original signed by B. Nevill
Position Division Exploitation Engineer
Company Shell Oil Company

NEW MEXICO OIL CONSERVATION COMMISSION

HOBBS OFFICE OCC

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

1956 NOV 10 AM 8:00

Pool Eumont Formation Yates County Lea

Initial ____ Annual ____ Special X Date of Test 6-29 to 7-6-56

Company Shell Oil Company Lease State "H" Well No. 4

Unit I Sec. 13 Twp. 21 S Rge. 35 E Purchaser El Paso Natural Gas Company

Casing 5 1/2 Wt. 15.5 I.D. 4.976 Set at 3767 Perf. 3320 To 3542

Tubing 2 Wt. 4.7 I.D. 1.995 Set at 3907 Perf. ____ To ____

Gas Pay: From 3320 To 3542 L 3320 xG .665 =GL 2208 Bar.Press. 13.2

Producing Thru: Casing X Tubing ____ Type Well G. O. Dual
Single-Br. Wellhead-G. G. or G.O. Dual

Date of Completion: 2-1-54 Packer 3539 Reservoir Temp. ____

OBSERVED DATA

Tested Through ~~(Prover)~~ ~~(Choke)~~ (Meter) Type Taps Flange

No.	Flow Data ~~(Prover)~~ (Line) Size	~~(Choke)~~ (Orifice) Size	Press. psig	Diff. h_w	Temp. °F.	Tubing Data Press. psig	Tubing Data Temp. °F.	Casing Data Press. psig	Casing Data Temp. °F.	Duration of Flow Hr.
SI								784		72
1.	4	1.250	557	3.0	72			722		24
2.	4	1.250	409	6.05	66			642		24
3.	4	1.250	435	6.20	69			615		24
4.	4	1.250	480	8.25	73			539		24
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	9.643	71.60		.9887	.9498	1.057	685
2.	9.643	124.29		.9943	.9498	1.042	1,180
3.	9.643	131.23		.9915	.9498	1.045	1,245
4.	9.643	175.60		.9877	.9498	1.045	1,659
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio ____ cf/bbl. Specific Gravity Separator Gas ____
Gravity of Liquid Hydrocarbons ____ deg. Specific Gravity Flowing Fluid ____
F_c 1.758 $(1-e^{-s})$ .141 P_c 797.2 P_c^2 635

No.	P_w P_t (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$(F_cQ)^2$ $(1-e^{-s})$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.	735.2	540	1.20	1.44	.20	540.2	94.8	735.2	.9222
2.	655.2	429	2.10	4.41	.62	429.6	205.4	655.5	.8222
3.	628.2	394	2.19	4.80	.68	394.7	240.3	628.3	.7886
4.	552.2	305	2.92	8.52	1.20	306.2	328.8	553.4	.6942
5.									

Absolute Potential: 2,675 MCFPD; n 0.716

COMPANY Shell Oil Company
ADDRESS Box 1957, Hobbs, New Mexico
AGENT and TITLE R. M. Tinkepaugh
WITNESSED Edward Mabe
COMPANY El Paso Natural Gas Company

REMARKS

Well produces through compressor.

ELVIS A. UTZ
GAS ENGINEER

INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w). MCF/da. @ 15.025 psia and 60° F.

P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia

P_w = Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia

P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia

P_f = Meter pressure, psia.

h_w = Differential meter pressure, inches water.

F_g = Gravity correction factor.

F_t = Flowing temperature correction factor.

F_{pv} = Supercompressability factor.

n = Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t.