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NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-103
(Rev 3-55)

MISCELLANEOUS REPORTS ON WELLS

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

1962 OCT 15 AM 6:11

Name of Company Astec Oil & Gas Company		Address Box 847, Hobbs, New Mexico					
Lease	State	Well No.	Unit Letter	Section	Township	Range	
		9	F	2	21	37	
Date Work Performed 8-15-62	Pool Undesignated	County Lea					

THIS IS A REPORT OF: (Check appropriate block)

- ☐ Beginning Drilling Operations
 ☐ Casing Test and Cement Job
 ☒ Other (Explain):
- ☐ Plugging
 ☐ Remedial Work

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

We wish to notify you that this well is shut-in, waiting on gas line connection

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

Witnessed by	Position	Company
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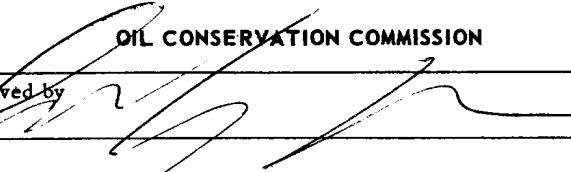
FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

ORIGINAL WELL DATA

D F Elev.	T D	P B T D	Producing Interval	Completion Date
Tubing Diameter	Tubing Depth	Oil String Diameter	Oil String Depth	
Perforated Interval(s)				
Open Hole Interval			Producing Formation(s)	

RESULTS OF WORKOVER

Test	Date of Test	Oil Production BPD	Gas Production MCFPD	Water Production BPD	GOR Cubic feet/Bbl	Gas Well Potential MCFPD
Before Workover						
After Workover						

OIL CONSERVATION COMMISSION		I hereby certify that the information given above is true and complete to the best of my knowledge.	
Approved by		Name	original signed by: LESTER L. DUKE
Title		Position	Superintendent
Date		Company	Astec Oil & Gas Company

NEW MEXICO OIL CONSERVATION COMMISSION

HOBBS OFFICE OCC

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

1952 SEP 5 AM 10:03

Pool Undesignated Formation Paddock County LeaInitial X Annual ----- Special ----- Date of Test 8-15-62Company Astec Oil & Gas Lease State Well No. 9Unit 7 Sec. 2 Twp. 21 Rge. 37 Purchaser Southern Union Gas CompanyCasing 4 1/2 Wt. 9.5 I.D. 4.09 Set at 5682 Perf. open hole 5682 To 7780Tubing 2" N80 Wt. 4.74 I.D. 1.995 Set at 5766 Perf. ----- To -----Gas Pay: From 5682 To 5780 L 5766 xG .700 -GL 4036.2 Bar. Press. 13.2Producing Thru: Casing ----- Tubing X Type Well SingleDate of Completion: 8-16-62 Packer Gulb. 270-30 Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. 82.9

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) Type Taps Std. Prover

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	-----	-----	-----	-----	-----	1072	-----	-----	-----	72
1.	8"	1/8	899	-----	88	884	84	884	84	3
2.	8"	1/4	909	-----	82	914	80	"	"	3
3.	8"	3/8	890	-----	82	874	80	"	"	3
4.	8"	1/2	143	-----	74	148	70	"	"	3
5.	8"	1/8	892	-----	80	875	77	"	"	24

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.	.9418		872.2	.9741	.9858	1.095	294.350
2.	1.1030	1.1030	902.2	.9795	"	1.095	700.980
3.	3.0691		863.2	.9795	"	1.016	744.258
4.	5.5833		195.2	.9828	"	1.009	755.215
5.	.9418		863.2	.9813	"	1.098	294.992

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio None cf/bbl.
Gravity of Liquid Hydrocarbons ----- deg.
F_c 9.936 (1-e^{-s}) .842Specific Gravity Separator Gas .700
Specific Gravity Flowing Fluid .700
P_c 1085.2 P_c 1177.659

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _c	P _w /P _c
1.	877.2	769.480	822.355	8.3560	8.0706	771.331	486.188	878.6	.809
2.	887.2	877.940	822.355	8.3560	11.7375	889.816	887.981	930.0	.896
3.	887.2	71.358	794.73	8.8833	13.8331	84.889	1003.458	890.9	.858
4.	161.2	25.985	192.85	37.1958	15.1189	26.1955	1136.764	892.7	.807
5.	870.2	757.344	822.355	8.3560	8.0706	770.347	486.332	871.3	.805

Absolute Potential: 28.9 MCFPD; n .95
COMPANY Astec Oil & Gas Company
ADDRESS Box 871, Hobbs, New Mexico
AGENT and TITLE Swight Tipton, District Superintendent
WITNESSED Swight Tipton
COMPANY Astec Oil & Gas Company

REMARKS

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 .

